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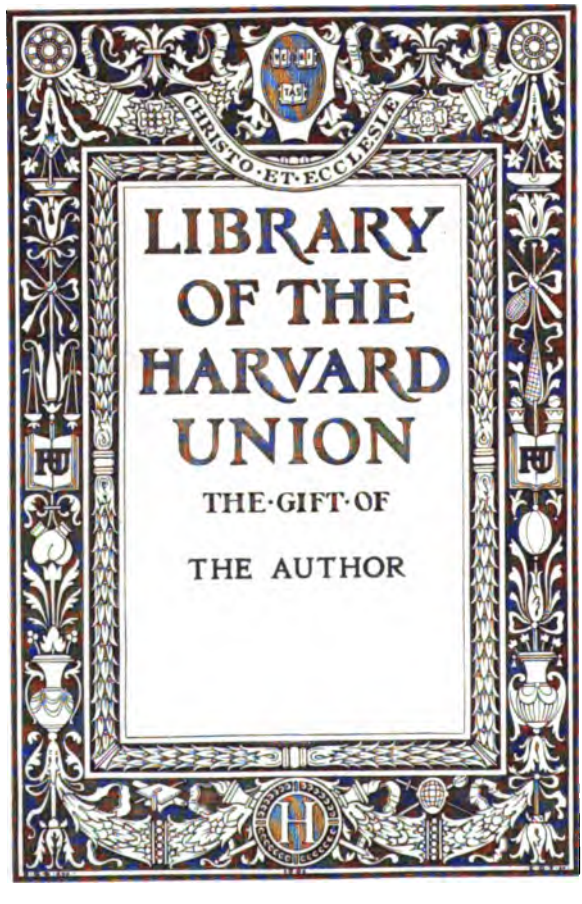

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A BIBLIOGRAPHY OF MUNICIPAL GOVERNMENT IN THE UNITED STATES

BY

WILLIAM BENNETT MUNRO
PROFESSOR OF MUNICIPAL GOVERNMENT IN
HARVARD UNIVERSITY

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PREFACE

A BIBLIOGRAPHY of municipal government has been much needed for a long time by teachers, librarians and city officials. It is now nearly fifteen years since Professor Robert C. Brooks issued the second edition of his *Bibliography of Municipal Affairs and City Conditions* — a most useful handbook in its day. In the interval, however, there has been a prodigious output of publications relating to this general field. No one can hope to keep pace with it all. To attempt a complete catalogue would be a waste of time and printer's ink, since much of the material, most of it in fact, has only a transitory or local interest. The aim of the present editor has been to make, from the entire mass, a selection of those materials which seemed to be most likely to prove of service both to the general reader and to the special student of municipal affairs. For this reason the volume includes references of a widely differing character — some quite elementary and others semi-technical. It may appear incongruous to put such things side by side, but each has its own constituency. The field of municipal government has been approached from a broad viewpoint and regarded as including every important phase of local activity whether political, administrative, social or economic.

Scope of this Bibliography.

In determining what ought to be included and what left out, certain definite but not inflexible rules have been kept in mind. It may be well to indicate them here, for they embody principles upon which most men interested in bibliographical apparatus would probably agree; they also explain many things in this volume which might otherwise be taken as indications of editorial predilection or caprice, and may thus serve to forestall some fastidious criticism.

Rules followed in compiling it.

A satisfactory bibliography of municipal government ought to contain references: (*a*) to discussions of an elementary character

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1. Endeavors to present a variety of materials.

for the benefit of general readers; (*b*) to detailed discussions and semi-technical treatises such as are likely to prove useful to the special student of the subject; and (*c*) to more elaborate bibliographical lists for the use of those who desire contact with all the materials on any particular phase of the subject.

To satisfy these various requirements some such scheme of classification as is followed in this volume seemed necessary. It appeared desirable also to give some indication as to the relative scope and usefulness of the different materials included. That does not mean, however, that every reference should be accompanied by a critical note. The scope of many writings is amply indicated by their titles; in other cases the table of contents is enough to show whether a reader is likely to find what he is looking for. To estimate fairly the value of all materials relating to the whole field of municipal government is a task far beyond the knowledge and experience of any one man. Critical notes have accordingly been inserted in this volume only where personal familiarity with the materials seemed to warrant a fair judgment expressed in few words, and even then with due allowance for the fact that values often depend upon points of view.

2. Pays special attention to municipal affairs in America.

The interest of the American student of municipal affairs relates chiefly to the cities of his own land. The quest for data regarding municipal administration in European countries is not so vigorous as it was a decade ago. References to European materials have been incorporated wherever a substantial reason for so doing has appeared; but a distinct preference has been given to those reports and discussions which deal with American problems in the light of our own conditions and experience.

3. Includes only recent publications.

Books, reports, pamphlets and articles relating to municipal government in the United States, written more than fifteen years ago, are of little or no value today. There are, of course, obvious exceptions in the case of historical studies and a few monographic treatises of enduring merit. But the rapid and comprehensive changes in political organization, in administrative methods, and in the popular attitude towards municipal problems since 1900, have greatly impaired the usefulness of anything written on such matters prior to this date. This bibliography is not therefore

designed to be of any great service to the student whose interest is antiquarian in its nature. A strong preference has been given to materials of recent date. More than three fourths of the references in this volume (excluding those relating to historical development) are to materials which have appeared since 1905; more than half are to things printed within the last five years. Many books and articles which were accounted excellent in their day have been omitted to make room for discussions which, though perhaps of inferior intrinsic merit, are up-to-the-minute in their facts and outlook.

Then there is the question of accessibility. Many informing discussions, mostly of a semi-technical character, have been omitted from these lists because they happen to be printed in serials or volumes of proceedings which have a very limited circulation and are not usually to be found even in well-equipped libraries. On the other hand, the lists have occasionally found place for things which do not measure up to a very high standard of quality, but which any one can readily lay his hands upon. Wherever practicable, however, preference has been given to official data, to reports of investigating organizations or committees, to papers read before associations of recognized standing, to treatises of scientific repute, and to articles in professional periodicals. So far as seemed possible in view of the limited material available on some topics, and except as otherwise indicated, all literature of a purely propagandist character, most of the so-termed "popular" discussions, and much of what is more controversial than contributory, have been discarded. To have cumbered the book with these things would have enlarged it out of all proportion to any enhanced value obtained by including them.

4. Gives preference to things which are readily accessible.

5. Also to official data.

In determining the limits of the bibliography and the distribution of space among the various topics, several considerations have been kept in mind. The boundary lines between municipal government on the one hand, and sociology, social ethics or allied subjects on the other, are not rigidly defined. This volume may be regarded by the apostles of strict construction as having overstepped the limits at many points. Nothing has been included,

6. Places emphasis on the social activities of the city.

however, which does not, in the widening social horizon of today, concern the student of municipal affairs as such. The machinery of city administration is now being used to promote ambitious programs of social betterment in all large American cities. The municipality is becoming our premier philanthropist. It is for this reason that references to books on immigration, child welfare, social engineering, settlements, and various similar fields of common activity, are incorporated here.

7. Allots space in accordance with importance and present-day interest of topics.

Some sections of this bibliography are much more extensive than others. This is partly because good material is abundant on some topics, while on others it is surprisingly inadequate. But in even greater measure the apportioning of space among the seventy-six sections of the book has been determined by what seemed to be the relative importance of the various topics and by the amount of present-day interest in them. That, of course, is why the section on docks and harbors is more extensive than that on bridges or bakeries, why the city-manager plan gets more attention than the bicameral council. On the relative importance of various administrative enterprises or movements there is room for legitimate difference of opinion, and men may also disagree fairly as to the things which today excite the most wide-spread popular interest. The editor's judgment in this regard has been guided by the experience of ten years in directing student research and in replying to almost daily bibliographical inquiries from every part of the country.

8. Aims to be comprehensive but not exhaustive.

It may not be amiss to venture the hope that this volume will be judged not by what it *omits* but by what it *contains*. The real test is whether it provides a handbook to which the layman, or the student, or the city official, may turn with a fair assurance of being started on the right road to what he wants. Following up one reference will usually suggest another. Too much material thrown before an interested inquirer at one stroke is likely not only to bewilder and discourage but also to deprive him of that useful training which comes from repeatedly tracking down information to its primary sources.

Entire dependence, however, has not been placed upon individual opinion on any of the foregoing points. Every section of

the bibliography has been submitted in proof form to one of my colleagues at Harvard and elsewhere, or to a technical expert, or to some interested layman, with a request for criticisms and suggestions. Grateful acknowledgment should be made for assistance given in this way by Professor George C. Whipple on sanitation and sewerage, Professor Charles J. Bullock on municipal taxation and assessments, Professor Lewis J. Johnson on direct legislation, Professor A. N. Holcombe on electoral machinery, Professor James Ford on housing, Professor Robert F. Foerster on poor relief, immigration, and crime and correction, Professor H. W. Holmes on school administration, Dr. J. S. Davis on municipal accounting, and Mr. G. H. McCaffrey on police administration. Helpful suggestions have also been given by Mr. G. W. Tillson of Brooklyn on streets and sidewalks, Mr. Calvin Tomkins of New York on docks and harbors, Dr. Delos F. Wilcox of New York on franchises, Mr. M. N. Baker of the Engineering News on water supply, Dr. Louis Bell of Boston on public lighting, Mr. H. O. Lacount of the Associated Factory Mutual Fire Insurance Companies and Mr. Franklin H. Wentworth of the National Fire Protection Association on fire prevention and protection, Dr. Mark W. Richardson of Boston on public health, Mr. O. L. Pond of Indianapolis on public service corporations, Mr. G. W. Lee of the Stone and Webster Corporation on transportation, Mr. C. F. D. Belden of the Massachusetts State Library on public libraries, Mr. Flavel Shurtleff of Boston on land takings, excess condemnation and special assessments, Dr. John Nolen and Mr. Frederick M. Eliot of Cambridge on city planning, Mr. Joseph Lee of Boston on playgrounds, Dr. L. D. Upson of Dayton on the city-manager plan, Dr. Robert A. Woods of Boston on social engineering and social surveys, Mr. John Koren of Boston on the liquor problem, Professor C. E. Merriam of the University of Chicago on nomination methods, Professor A. R. Hatton of Western Reserve University on municipal home rule, Professor John A. Fairlie of the University of Illinois on municipal history and organization, Professor O. C. Hormell of Bowdoin College on the relation of city and county, Professor J. A. Macy of Boston University Law School on the law of municipal corporations, Pro-

Acknowledgment of assistance.

fessor S. Gale Lowrie of the University of Cincinnati on municipal budget-making, Professor Horace Secrist of Northwestern University on municipal debts, Professor C. P. Huse of Boston University on municipal finance, Professor John R. Commons, Professor Ford H. MacGregor and Professor Chester L. Jones of the University of Wisconsin on proportional representation, commission government, and municipal parties and politics, respectively. It should be made clear, however, that no one in this considerable list is in any way responsible for the errors in judgment or in handiwork which the book, as finally printed, may contain. The editor has had the last word on all matters and the entire responsibility belongs to him.

The work of gathering titles, selecting the ones worth while, classifying, arranging and annotating them, preparing the lists for publication, revising the proofs, making the index, and putting the volume through the press has taken nearly three years. No inconsiderable part of the inevitable drudgery connected with this exacting task has been handled by Mr. Joseph Wright, librarian, and Miss Alice M. Holden, secretary, of the Harvard Bureau for Research in Municipal Government. Without their continued help the work would have taken a much longer time, and the outcome would certainly have been much further from good results in the end. These co-workers should have a large part of the credit if the volume proves of service to teachers and students of municipal government.

Conclusion.

In conclusion, a word of self-defense. The man who undertakes to edit a bibliography must be willing to live in a glass house. He invites stone-throwing on a considerable scale. This book, for example, contains about five thousand titles. Every title has afforded an opportunity for errors in the author's name and initials, in the citation, in the place and date of publication, in the pagination figures — at a half-dozen points or more, not to speak of the possibilities of mishap which lurk in an extended index. As a mathematical proposition, therefore, this bibliography has given its editor forty or fifty thousand chances to make mistakes. Even if the task has been performed with a ninety-nine per cent approach to perfection (which is better

than even the most methodical of mortals may expect to achieve), there remains the melancholy assurance of at least one lapse from accuracy for every page. The editor ventures the hope, however, that the large amount of time spent in a scrutiny of the lists has not been barren of some results.

W. B. M.

CAMBRIDGE, MASSACHUSETTS,
May 28, 1915.

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Gives outline of charters.

Thomas, T. P. City government of Baltimore. Baltimore, 1896. (Johns Hopkins University Studies in Historical and Political Science, xiv, pp. 47–91 (1896).)

Boston.

Bugbee, J. M. City government of Boston. Baltimore, 1887. 60 pp. (*Ibid.*, iii (1887).)

Matthews, Nathan. City government of Boston. Boston, 1895. 289 pp. (Valedictory address to members of the city council, January 5, 1895.)

[1] This list is not designed to be complete. It contains only references to monographs on selected cities.

Boston (continued).

QUINCY, JOSIAH. Municipal history of the town and city of Boston (1630–1830). Boston, 1852. 444 pp.

SPRAGUE, H. H. The city government of Boston; its rise and development. Boston, 1890. 53 pp.

WINSOR, JUSTIN, editor. Memorial history of Boston, 1630–1880. 4 vols. Boston, 1881–1883.

Vol. iv covers the period of the nineteenth century.

Buffalo.

LARNED, J. N. History of Buffalo. 2 vols. Buffalo, 1911.

Chicago.

ANDREAS, A. T. History of Chicago. 3 vols. Chicago, 1884–1886.

BROSS, WILLIAM. History of Chicago. Chicago, 1876. 126 pp.

GROSSER, H. S. Chicago; a review of its governmental history from 1837–1906. Chicago, 1906. 128 pp.

MCLAUGHLIN, A. C., and HART, A. B., editors. Cyclopedia of American government. 3 vols. New York, 1914.

Chicago: history, i, pp. 251–254. References, p. 254.

SPARLING, S. E. Municipal history and present organization of the city of Chicago. Madison, 1898. 188 pp. (Bulletin of the University of Wisconsin, no. 23 (May, 1898).)

Cleveland.

BURTON, C. M. Chapter in the history of Cleveland. Detroit, 1895. 31 pp.

MCLAUGHLIN, A. C., and HART, A. B., editors. Cyclopedia of American government. 3 vols. New York, 1914.

Cleveland: history, i, pp. 295–297. References, p. 297.

WILLIAMSON, C. C. The finances of Cleveland. New York, 1907. 266 pp. (Columbia University Studies in History, Economics and Public Law, xxv, no. 3.)

See also, below, under *Detroit*, D. F. Wilcox, Municipal government in Michigan and Ohio.

Denver, Colo.

KING, C. L. The history of the government of Denver with special reference to its relations with public service corporations. Denver, 1911. 322 pp.

One of the best studies in the field of American municipal history.

Detroit.

FARMER, SILAS. The history of Detroit and Michigan. 2 vols. Detroit, 1889.

WILCOX, D. F. Municipal government in Michigan and Ohio: a study in the relations of city and commonwealth. New York, 1896. 180 pp. (Columbia University Studies in History, Economics and Public Law, v, no. 3.)

Los Angeles, Cal.

MCLAUGHLIN, A. C., and HART, A. B., editors. Cyclopedia of American government. 3 vols. New York, 1914.

Los Angeles: history, ii, 372–373. References, p. 373.

Milwaukee, Wis.

LARSON, L. M. A financial and administrative history of Milwaukee. Madison, 1908. 182 pp. (Bulletin of the University of Wisconsin, no. 242 (June, 1908).)

New Haven, Conn.

LIVERMORE, C. H. The republic of New Haven. A history of municipal evolution. Baltimore, 1886. 342 pp. (Johns Hopkins University Studies in Historical and Political Science, extra vol. i (1886).)

New Orleans, La.

HOWE, W. W. Municipal history of New Orleans. Baltimore, 1889. 33 pp. (*Ibid.*, vii, no. 4 (1889).)

An excellent short sketch.

New York City.

BOOTH, M. L. History of the city of New York. 2 vols. New York, 1867.

DIX, J. A. Sketch of the resources of the city of New York, with a view of its municipal government. New York, 1827. 104 pp.

Valuable material for the period 1800–1825.

DURAND, E. D. The finances of New York City. New York, 1898. 397 pp.

LAMB, MARTHA J., and HARRISON, Mrs. BURTON. History of the city of New York, its origin, rise, and progress. 3 vols. New York, 1877–1896.

New York City (continued).

LEONARD, J. W. History of the city of New York, 1609–1909. New York, 1910. 954 pp.

LOSSING, B. J. History of New York City, 1609–1884. 2 vols. New York, 1884.

MCLAUGHLIN, A. C., and HART, A. B., editors. Cyclopedia of American government. 3 vols. New York, 1914.
New York City: history, ii, pp. 539–544. References, p. 544.

MOSS, FRANK. The American metropolis from Knickerbocker days to the present time. New York City life in all its various phases. 3 vols. New York, 1897.

TODD, C. B. Brief history of the city of New York. New York, 1899. 299 pp.

WILSON, J. G. Memorial history of the city of New York. 4 vols. New York, 1892.

Norfolk, Va.

BURTON, H. W. The history of Norfolk, Virginia, 1736 to 1877. Norfolk, 1877. 246 pp.

Philadelphia.

ALLISON, E. P., and PENROSE, BOIES. Philadelphia, 1681–1887. A history of municipal development. Baltimore, 1887. 392 pp. (Johns Hopkins University Studies in Historical and Political Science, extra vol. ii (1887).)

MCLAUGHLIN, A. C., and HART, A. B., editors. Cyclopedia of American government. 3 vols. New York, 1914.
Philadelphia: history, ii, pp. 676–679. References, p. 679.

PRICE, E. K. History of the consolidation of Philadelphia. Philadelphia, 1873. 140 pp.

University of Pennsylvania. Wharton School of Finance and Economy. The city government of Philadelphia. A study in municipal administration. Philadelphia, 1893. 278 pp. (Wharton School Studies in Politics and Economics, ii, no. 2 (June, 1893).)

YOUNG, J. R., editor. Memorial history of the city of Philadelphia, from its first settlement to the year 1895. 2 vols. New York, 1895–1898.

Pittsburgh.

McLaughlin, A. C., and Hart, A. B., editors. Cyclopedia of American government. 3 vols. New York, 1914.
Pittsburgh: history, ii, pp. 694–695. References, p. 695.

Providence, R. I.

Kirk, William. A modern city: Providence, Rhode Island, and its activities. Chicago, 1909. 363 pp. (Publication of the University of Chicago.)

St. Louis.

Snow, M. S. The city government of St. Louis. Baltimore, 1887. 40 pp. (Johns Hopkins University Studies in Historical and Political Science, v, no. 4 (1887).)

San Francisco.

Moses, Bernard. The establishment of municipal government in San Francisco. Baltimore, 1889. 83 pp. (*Ibid.*, vii, no. 2 and 3 (1889).)

Washington, D. C.

Clephane, W. C. A history of the government of the District of Columbia. Washington, 1892. 24 pp.

Dodd, W. F. The government of the District of Columbia; a study in federal and municipal administration. Washington, 1909. 298 pp.

Porter, J. A. The city of Washington; its origin and administration. Baltimore, 1885. 55 pp. (Johns Hopkins University Studies in Historical and Political Science, iii, no. 11 and 12 (1885).)

Tindall, William. Origin and government of the District of Columbia. Washington, 1912. 183 pp.

SECTION II. MUNICIPAL STATISTICS

1. General Statistics of American Cities

United States. Bureau of the Census. Statistics of cities of over 30,000. Washington. Published annually since 1905.
The issue for 1905 covers statistics for the years 1902–1903. The statistics are almost wholly financial in character and are arranged in tables. In general the facts presented in these tables relate to total municipal receipts and payments, amount and value of public properties and improvements, indebtedness, the distribution of receipts and payments, etc.

2. State Statistical Publications Containing Data Relating to Cities [1]

Connecticut. Tax Commissioner. Quadrennial report of indebtedness and expenditures of counties, towns, cities, and boroughs. First, 1908. Hartford, 1909.

Fomerly the Report of the comptroller of public accounts, showing the indebtedness, rate of tax, and expenditures of towns, cities, boroughs and counties.

Indiana. Department of Inspection and Supervision of Public Offices. Comparative report of municipal finances. Indianapolis. Published annually since 1911.

Iowa. Department of Finance and Municipal Accounts. Statistics of cities and towns of Iowa. Des Moines. Published annually since 1911.

Massachusetts.

Bureau of Statistics. Annual report on the statistics of municipal finances. No. 1, January, 1910. Boston. Published annually since 1906.

—— Municipal Bulletin. Boston. Issued irregularly.

To date Bulletins 1-6 have appeared.

Minnesota. Tax Commission. The cost of government in Minnesota. By E. V. Robinson. St. Paul, 1912. 287 pp.

This forms ch. xv of the Minnesota Tax Commission's third biennial report.

Missouri. Bureau of Labor Statistics and Inspection. Annual reports. First, 1880. Jefferson City.

See especially the Twenty-third annual report, pp. 358–374 (1900–1901), for statistics of Missouri cities having 100,000 population and over.

New York State. Public Service Commission. First District. Annual reports. New York. Published annually since 1907.

Each volume contains statistics relating to public utilities in cities.

Ohio. Bureau of Inspection and Supervision of Public Offices. Comparative statistics, cities of Ohio. Columbus. Published annually since 1904.

[1] Some states, in addition to those listed here, issue publications containing various municipal statistics, but they are not very comprehensive.

Rhode Island. Commissioner of Industrial Statistics. Annual reports. Providence. Published annually since 1888.

Each report contains a section devoted to the statistics of municipal finance.

Wisconsin. Bureau of Labor and Industrial Statistics. Biennial reports. Madison. Published biennially since 1884.

3. Statistical Publications of American Cities [1]

Boston.

Statistics Department. Annual reports. Boston. Published annually since 1898.

—— Monthly Bulletin. Boston. Published monthly since 1899.

—— Special publications. Boston. Published irregularly since 1898.

Chicago. Bureau of Statistics. City of Chicago statistics. Chicago. Published irregularly by the Chicago Municipal Reference Library and the Bureau of Statistics from March, 1901, to February, 1908.

The last issue is vol. vii, no. 4; it has been succeeded by the Chicago City manual.

Minneapolis, Minn. Municipal statistics. Minneapolis. Published irregularly.

Mobile, Ala. Municipal statistics. Monthly statement. Mobile. Published monthly since October, 1914.

Omaha, Nebr. Department of Accounts and Finances. Municipal statistics. Omaha. Published monthly since May 31, 1911.

Providence, R. I. Municipal Reference Bureau. Statistics relative to the city of Providence. Providence, 1914. 30 pp.

4. Statistics of Foreign Cities

(a) *By countries*

Austria. Statistische Central-Commission. Österreichisches Städtebuch auf Grund der Berichte von grösseren österreichischen Städten. Vienna. Published annually since 1887.

[1] A selected list of six cities. Most other cities do not issue special statistical publications but include the figures in their regular annual documents, reports, or city manuals.

France. Ministère de l'Intérieur. La situation financière des communes de France et d'Algérie. Paris. Published annually since 1878.

Germany. Statistisches Jahrbuch deutscher Städte. Edited by M. NEEFE. Breslau. Published annually since 1890.

Great Britain. Municipal year book of the United Kingdom. London. Published annually since 1897.

Italy. Annuario statistico delle città Italiane. Edited by CESARE CORRENTI. Florence. Published annually since 1906.

(b) *By cities*

Amsterdam. Bureau van Statistiek. Statistisch Jaarboek der gemeente Amsterdam uitgegeven door het Bureau van Statistiek de gemeente. Amsterdam. Published for each year since 1895.

The text and title are also printed in French.

Berlin.

Statistisches Amt. Statistisches Jahrbuch der Stadt Berlin. Berlin. Published annually since 1874.

Verwaltungsbericht des Magistrats zu Berlin. Berlin. Published annually since 1869.

Buenos Aires. Direccion General de Estadística Municipal. Boletin mensual de estadística municipal de la ciudad de Buenos Aires. Buenos Aires. Published monthly since 1887.

Contains scientific, social, vital, police, financial, and other statistics.

Dresden. Statistisches Amt. Statistisches Jahrbuch für die Stadt Dresden. Dresden. Published annually since 1899.

London.

London County Council. London statistics. London. Published annually since 1890.

London citizens' year book. London. Published annually since 1909.

London manual. London. Published annually from 1906 to 1908.

Paris.

Seine (Dept.). Service de la Statistique Municipale. Annuaire statistique de la ville de Paris. Paris. Published annually since 1880.

Each volume contains the figures for the second year preceding.

Encyclopédie municipale de la ville de Paris. Edited by LÉON MARTIN. 3 vols. Paris, 1902–1904.

Tokyo. Annual statistics of the city of Tokyo. Tokyo. Published annually since 1904.

Printed in English and in Japanese.

SECTION III. ENCYCLOPEDIAS, YEARBOOKS, AND WORKS OF REFERENCE

1. GENERAL

Annual register; a review of public events at home and abroad. London and New York. Published annually since 1758.

A standard chronicle of all important public events.

BLISS, W. D. P. The new encyclopedia of social reform, including all social reform movements and activities, and the economic, industrial, and sociological facts and statistics of all countries and all social subjects. New York, 1908. 1321 pp.

Encyclopedia Britannica. 11th edition. 28 vols. and index. Cambridge (England), 1911.

Contains many excellent articles on municipal affairs, with bibliographies.

Statesman's year book; statistical and historical annual of the states of the world. New York and London. Published annually since 1864.

The best general yearbook for all purposes. Since 1906 a part of each annual volume is devoted to the United States.

2. UNITED STATES

American year book; a record of events and progress. New York. Published annually since 1910.

A useful annual containing reliable data on many branches of municipal government, with bibliographies.

League of American Municipalities. The book of American municipalities. 4 vols. Chicago, 1906–1910.

McLaughlin, A. C., and Hart, A. B., editors. Cyclopedia of American government. 3 vols. New York, 1914.
Includes brief articles on every branch of municipal government, as well as full discussions of such topics as commission government, the initiative, referendum and recall, police administration, city planning, etc.

Woodruff, C. R., editor. The municipal encyclopaedia. 2 vols. New York. In preparation.

3. Great Britain

Bateson, William, editor. Municipal office organisation and management; a comprehensive manual of information and direction on matters connected with the work of officials of municipalities. London, 1915. 483 pp.

Encyclopedia of local government law. Edited by J. Schole-field. 7 vols. London, 1905–1908.
The best source of general information on any matter of English borough government.

Encyclopaedia of local government board requirements and practice. Edited by A. E. Wood and T. R. Johnson. 2 vols. London, 1908.

Local government; comprising statutes, orders, cases, and decisions of the local government board. Edited by A. and K. MacMorran. London. Published annually since 1908–1909.

4. France

Block, Maurice. Dictionnaire de l'administration française. 5th edition. 2 vols. Paris, 1905–1906.

Croissy, Th. de. Dictionnaire municipal. 2 vols. Paris, 1903.
Descriptive articles on all important matters of French local government.

5. Germany

Handwörterbuch der Kommunal-Wissenschaften. Edited by A. Südekum and others. 3 vols. Jena, 1914.
The best of all local government encyclopedias.

Handwörterbuch der Staatswissenschaften. 3d edition. 8 vols. Jena, 1909–1911.

A well-known encyclopedia containing many articles on municipal administration, with bibliographies.

Kommunales Jahrbuch. Edited by H. LINDEMANN and A. SÜDEKUM. Jena. Published annually since 1908.

Brings together each year a great deal of descriptive and statistical information.

6. BIBLIOGRAPHICAL INDEXES

CONAT, MABEL L., compiler. List of periodical publications relating to municipal affairs. Special Libraries, vi, pp. 129–139 (October, 1915).

Engineering Index Annual. Bibliography of municipal government. Compiled from the Engineering Index. New York, 1907.

Compiled from statistics published monthly in the Engineering Magazine since 1906.

Municipal Index. An index to current municipal literature and a list of important books on municipal subjects. New York, 1914.

Reprinted from second issues each month of the Municipal Journal since 1907.

National Municipal Review. Vol. i, January, 1912. Philadelphia.

Each issue of the Review contains a list of current references on subjects dealing with municipal government.

New York City. Public Library. Municipal Reference Branch. Notes. Vol. i, October 28, 1914. New York. Weekly.

SECTION IV. TEXT-BOOKS AND GENERAL DISCUSSIONS

ASHLEY, PERCY. Local and central government; a comparative study of England, France, Prussia, and the United States. London, 1906. 396 pp.

BAKER, M. N. Municipal engineering and sanitation. New York, 1906. 317 pp.

Interesting brief discussions of water supply, sanitation, pavements, fire protection, etc.

BEARD, C. A. American city government; a survey of newer tendencies. New York, 1912. 420 pp.

Contents: ch. i, The people of the city; ch. ii, Home rule; ch. iii, Municipal democracy; ch. iv, Municipal government and administration; ch. v, Raising and spending the city's money; ch. vi, Guarding the city against crime and vice; ch. vii, Franchises and public utilities; ch. viii, Municipal ownership; ch. ix, The streets of the city; ch. x, Guarding the health of the people; ch. xi, Tenement-house reform; ch. xii, Education and industrial training; ch. xiii, Municipal recreation; ch. xiv, City planning; appendix I, Outline of sections for a model street railway franchise; appendix II, Recommendations of the New York City Commission on Congestion; appendix III, Bibliography.

CLEVELAND, F. A. Chapters on municipal administration and accounting. New York, 1909. 361 pp.

DAWSON, W. H. Municipal life and government in Germany. London, 1914. 507 pp.

Covers all important branches of German city administration.

DEMING, H. E. The government of American cities. New York, 1909. 323 pp.

Lays special emphasis on the relation of the city to the state. Contains a reprint of the National Municipal League's Municipal program.

FAIRLIE, J. A. Essays in municipal administration. New York, 1908. 374 pp.

Contents: ch. i, Some phases of municipal government; ch. ii, Problems of American city government from the administrative point of view; ch. iii, The relation of civil service reform to municipal administration; ch. iv, Municipal corporations in the colonies; ch. v, The municipal crisis in Ohio; ch. vi, Municipal codes in the Middle West; ch. vii, American municipal councils; ch. viii, Recent legislation on municipal functions in the United States; ch. ix, Public works administration in American cities; ch. x, Revenue systems of American and foreign cities; ch. xi, Municipal electric lighting in Detroit; ch. xii, The street railway question in Chicago; ch. xiii, Some considerations on municipal ownership of public utilities; ch. xiv, Comparative municipal statistics; ch. xv, Municipal activities in Great Britain; ch. xvi, Municipal conditions in some European cities; ch. xvii, Municipal government in Vienna; ch. xviii, Municipal government in Italy; ch. xix, Instruction in municipal government.

—— Municipal administration. New York, 1906. 448 pp.

Covers the entire field of municipal government and administration.

GOODNOW, F. J. City government in the United States. New York, 1904. 315 pp.

The best short survey of American municipal affairs, both governmental and administrative.

—— Municipal government. New York, 1909. 401 pp.

A comprehensive text-book, dealing with both European and American municipal government.

—— Municipal problems. New York, 1907. 321 pp.

HOWE, F. C. The British city, the beginnings of democracy. New York, 1907. 370 pp.

—— The city, the hope of democracy. New York, 1906. 319 pp.

—— European cities at work. New York, 1913. 370 pp.

—— The modern city and its problems. New York, 1915. 390 pp.

Four readable volumes with a radical viewpoint.

JAMES, H. G. A handbook of civic improvement. Austin, 1915. 119 pp.

MUNRO, W. B. The government of American cities. New York, 1912. 401 pp.

Contents: ch. i, American municipal development; ch. ii, The social structure of the city; ch. iii, The city and the state; ch. iv, Municipal powers and responsibilities; ch. v, The municipal electorate; ch. vi, Municipal nominations and elections; ch. vii, Municipal parties and politics; ch. viii, The city council; ch. ix, The mayor; ch. x, The administrative departments; ch. xi, Municipal officials and employees; ch. xii, City government by a commission; ch. xiii, Direct legislation and the recall; ch. xiv, Municipal reform and reformers.

—— The government of European cities. New York, 1909. 409 pp.

Contents: ch. i, The government of French cities; ch. ii, The government of Prussian cities; ch. iii, The government of English cities; ch. iv, Sources and literature.

—— Principles and methods of municipal administration. New York, 1915.

Contains chapters on city planning, streets, water supply, sanitation, public lighting, fire protection, police, schools, and municipal finance.

REDLICH, JOSEF, and HIRST, F. W. Local government in England. 2 vols. London, 1903.

Some good chapters on city government.

ROWE, L. S. Problems of city government. New York, 1908. 358 pp.

SHAW, ALBERT. Municipal government in continental Europe. New York, 1906. 505 pp.

—— Municipal government in Great Britain. New York, 1904. 385 pp.

Both the foregoing are very readable books but they describe conditions as they existed nearly twenty years ago.

WILCOX, D. F. The American city; a problem in democracy. New York, 1904. 423 pp.

A new edition is now in the press.

—— Great cities in America; their problems and their government. New York, 1910. 426 pp.

Describes the government and problems of New York, Chicago, Philadelphia, St. Louis, Boston, San Francisco, and Washington.

ZUEBLIN, CHARLES. American municipal progress; chapters in municipal sociology. New York, 1903. 380 pp.

SECTION V. SERIAL PUBLICATIONS

1. GENERAL PERIODICALS (IN ENGLISH) DEVOTED WHOLLY TO MUNICIPAL AFFAIRS

American City. Vol. i, September, 1909. New York. Monthly.

A readable magazine especially useful as a source of information on current municipal affairs. Well illustrated.

American Municipalities. Vol. i, 1903. Marshalltown (Iowa). Monthly.

Formerly called City Hall-Midland Municipalities.

Canadian Municipal Journal. Vol. i, 1905. Montreal. Monthly.

Official organ of the Union of Canadian Municipalities.

Local Government Review. Vol. i, 1909. London. Monthly.

Deals almost wholly with British municipal affairs.

Municipal Affairs. Vols. i–vi, 1897–1902. New York. Quarterly.

No more published. The existing files contain some good historical discussions.

Municipal Engineers Journal. Vol. i, May, 1915, New York. Published monthly by the Municipal Engineers of the City of New York.

Municipal Engineering. Vol. i, 1890. Indianapolis. Monthly.

Vols. i-x called Paving and Municipal Engineering.

Municipal Journal (London). Vol. i, 1893. London. Weekly.
A well-edited journal of English municipal government.

Municipal Journal (New York). 1901. New York. Weekly.
Continued from vol. x (1901) of City Government (1895), which included the Municipal and Railway Record; vols. x-xxxii, no. 18, called Municipal Journal and Engineer; from vol. xxxii, no. 19 (May 9, 1912), the title appears as Municipal Journal.

National Municipal Review. Vol. i, January, 1912. Philadelphia. Published quarterly by the National Municipal League.
A most useful publication. Contains contributed articles, short discussions, notes and current news, book reviews and bibliographical lists. Indispensable to all serious students of city affairs.

Pacific Municipalities. Vol. i, August, 1899. Santa Clara, 1901–. Monthly.
Official organ of the League of California Municipalities. Title varies: August, 1899–July, 1903, California Municipalities; August, 1903, Pacific Municipalities.

Town Development. Vol. i, 1909. Chicago. Monthly.

Official Monthly periodicals are maintained by Leagues of Municipalities in Kansas, Texas, Wisconsin, and other states.

2. General Periodicals Devoted Partly to the Discussion of Municipal Affairs [1]

American Political Science Review. Vol. i, 1906. Baltimore. Quarterly.
Each issue includes a department devoted to current municipal affairs.

Annals of the American Academy of Political and Social Science. Vol. i, 1890. Philadelphia. Bi-monthly.
A whole issue is from time to time devoted to the discussion of some important municipal question.

Engineering News. Vol. i, 1874. New York. Monthly.
Every number contains materials on municipal engineering.

Engineering Record. Vol. i, 1887. New York. Monthly.

Journal of Political Economy. Vol. i, 1892. Chicago. Monthly.

Political Science Quarterly. Vol. i, 1886. New York.

Quarterly Journal of Economics. Vol. i, 1886. Cambridge.

[1] For periodicals devoted to special branches of municipal administration, see under City Planning, Civil Service, Fire Protection, Lighting, Water Supply, etc. A full list of these is given in H. I. Severance, compiler, A guide to the current periodicals and serials of the United States and Canada. 3d edition. Ann Arbor, 1914. 462 pp. See also Conat, M. L. (above, p. 19).

Special Libraries. Vol. i, 1910. Indianapolis. Monthly.

The Survey. Vol. i, 1897. New York. Weekly.
Formerly called Charities and the Commons. A weekly record of social betterment.

3. Official Periodicals of Cities

Atlantic City, N. J. Commission Government. Vol. i, March, 1913. Atlantic City. Monthly.

Baltimore. Municipal Journal. Vol. i, January 17, 1913. Baltimore. Bi-weekly.

Boston. City Record. Vol. i, August 14, 1909. Boston. Weekly.

Chattanooga, Tenn. Municipal Record. Vol. i, June, 1911. Chattanooga. Monthly.

Cleveland. The City Record. Vol. i, January, 1914. Cleveland. Weekly.

Denver, Colo. City of Denver. Vols. i–iii, 1912–1914. Denver. Bi-weekly.
Published weekly until October, 1912, under the title of Denver Municipal Facts.

Houston, Texas. Progressive Houston. Vol. i, 1909. Houston. Monthly.

Los Angeles, Cal. Los Angeles Municipal News. Vol. i, 1912–1913. Los Angeles.
Published weekly by the municipal newspaper commission from April 17, 1912, to April 9, 1913.

Memphis, Tenn. Commission Government. Vol. i, October, 1912. Memphis. Bi-monthly.
Issued monthly until February, 1914.

New York City. City Record. Vol. i, June 24, 1873. New York. Daily.

San Francisco. Municipal Record. Vol. i, 1908. San Francisco. Weekly.

Spokane, Wash. Official Gazette. Vol. i, March 18, 1911. Spokane. Weekly.

Tacoma, Wash. Municipal Bulletin. Vol. i, January, 1911. Tacoma. Monthly.

4. Unofficial Periodicals Dealing with the Public Affairs of Individual Cities (Including those Issued by the Larger Boards of Trade, etc.)[1]

Baltimore. Women's Civic League. Civic Courier. Vol. i, February, 1912. Baltimore. Published irregularly.

Berkeley, Cal. Civic Club of Berkeley. Civic Bulletin. Vol. i, August, 1912. Berkeley. Monthly.

Boston.

Chamber of Commerce. Current Affairs. Vol. i, 1910. Boston. Weekly.

Formerly called the Chamber of Commerce News.

Good Government Association. City Affairs. Vol. i, 1906. Published irregularly.

Buffalo. Chamber of Commerce. Buffalo Live Wire. Vol. i, 1909. Buffalo. Monthly.

Chicago. Association of Commerce. Chicago Commerce. Vol. i, June 1, 1905. Chicago. Published weekly.

Issued daily until August 31, 1905, under title of Bulletin.

Cleveland. Civic League. Municipal Bulletin. Vol. i, May, 1910. Cleveland. Published irregularly.

Dayton, Ohio. Chamber of Commerce. Greater Dayton. Vol. i, September, 1908. Dayton. Monthly.

Denver, Colo. Chamber of Commerce. News Bulletin. Vol. i, July, 1910. Denver. Monthly.

Detroit. Board of Commerce. The Detroiter. Vol. i, 1910. Detroit. Weekly.

Vols. i–v issued monthly.

New York City. Citizens' Union. The Searchlight. Vol. i, May, 1911. New York. Published irregularly.

St. Louis. Civic League. Public Affairs. Vol. i, January 10, 1913. St. Louis. Bi-monthly.

Formerly called Civic Bulletin, vols. i-ii, 1911–1912. Temporarily discontinued with vol. ii, no. 4 (August–September, 1914).

San Francisco. Civic League. The Improver. Vol. i, May, 1912. San Francisco. Monthly.

Issued somewhat irregularly.

[1] Only a selected list of the more important publications is included.

Seattle, Wash. Municipal League. Municipal League News. Vol. i, 1910. Seattle. Weekly.

Worcester, Mass. Board of Trade. The Worcester Magazine. Vol. i, 1901. Worcester. Monthly.

Mention should also be made of the publications issued by various city clubs which include addresses and notes on municipal affairs, for example:

Boston. City Club. Bulletin. Vol. i, 1907. Boston. Monthly.

Chicago. City Club. Bulletin. Vol. i, 1907. Chicago. Published irregularly.

New York City. City Club. Bulletin. Vol. i, 1895. New York. Monthly.

Issued regularly only at intervals: November, 1895–August, 1896; September, November, 1907; January, 1908; December, 1909–June, 1910; June, 1911.

Philadelphia. City Club. Bulletin. Vol. i, October, 1909. Philadelphia. Monthly.

5. Proceedings of Organizations Devoted Wholly to the Discussion of Municipal Affairs

American Civic Association. Bulletin, 1904–. Department pamphlets, 1905–. Special series, 1905–. Washington.

These bulletins are published at irregular intervals and deal chiefly with civic improvements.

American Society of Municipal Improvements. Proceedings of the annual conventions. First, 1894. Milwaukee, 1895.

Illinois Municipal League. Proceedings of the annual conventions. First, 1914. Urbana, 1915.

League of American Municipalities. Proceedings of annual conventions. First, 1899. Des Moines, 1900.

League of Michigan Municipalities. Proceedings of annual conventions. First, 1899.

League of Minnesota Municipalities. Proceedings of the annual conventions. First, 1913. St. Paul.

League of Pacific Northwest Municipalities. Proceedings of annual conferences. First, 1912. Walla Walla.

League of Texas Municipalities. Proceedings of annual meetings. First, 1913. Austin.

League of Virginia Municipalities. Proceedings of annual conventions. First, 1906.

League of Washington Municipalities. Proceedings of annual conventions. First, 1910. Seattle.

National Municipal League. Proceedings of the conferences for good city government and the annual meetings of the National Municipal League. 17 vols. Philadelphia, 1894–1911.

A valuable storehouse of material. Since 1912 the papers and discussions have been printed in the National Municipal Review (see above, p. 23).

New York State. Conference of Mayors and Other City Officials. Proceedings of conferences. First, 1910. New York, 1911.

The following university series contain important monographs on municipal questions:

Columbia University. Studies in History, Economics and Public Law. Vol. i, 1891. New York.

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6. Proceedings of Organizations Devoted to Special Branches of Municipal Administration [1]

American Public Health Association. Public Health. Papers and reports. Vol. i, 1873. Published annually in various places.

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National Civil Service Reform League. Proceedings of the annual meetings. First, 1882. New York.

National Conferences of Charities and Correction. Proceedings. First, 1874. Chicago. Published annually.

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7. Publications of Bureaus of Reference, Efficiency and Research [2]

The following bureaus have issued publications, either regularly or at intervals, during the last few years. A full list of these may

[1] In addition to the organizations listed here there are many others which deal with such matters as police, playgrounds, prison reform, poor relief, child welfare, immigration, and with other social problems closely related to municipal administration. Brief accounts of their annual meetings are usually given in the Survey or in the American City. Other organizations of a professional nature give special attention to sanitary engineering, public lighting, etc. Their work may be followed in the issues of the Engineering News.

[2] For bureaus of research and reference connected with universities, see below, pp. 389–390.

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CHAPTER II

POLITICAL MACHINERY AND DIRECT LEGISLATION

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Boston. An act of the legislature of Massachusetts relating to the administration of the city of Boston and to amend the charter of said city. Doc. 118 (1909). Boston, 1909.

The consolidated statutes relating to the city of Boston. Codified by T. M. BABSON, corporation counsel, by order of the city council. Boston: Printing Department, 1908. 631 pp.

Bridgeport, Conn. An act revising the charter of the city of Bridgeport. Connecticut Special acts and resolutions, xv, Pt. I, pp. 493–556 (1907).

Buffalo. Laws of New York, 1914. Ch. 217. An act to provide a charter for the city of Buffalo. (Separately printed.) Buffalo, 1914. 136 pp.

Cedar Rapids, Iowa. Commission plan of government. The Iowa law providing for municipal government under the commission plan, the ordinance fixing departments and apportioning powers, and the reports of the heads of the departments from the adoption of the commission plan in April, 1908, to January 1, 1910. Cedar Rapids: National Printing Co., 1910. 46 pp.

Cleveland. Charter of the city of Cleveland. Prepared and proposed by the charter commission. Adopted July 1, 1913. Cleveland, 1913. 80 pp.

Dallas, Texas. Charter of the city of Dallas, 1907 (including amendments of 1909). Dallas [1910]. 141 pp.

Dayton, Ohio. Charter for the city of Dayton. Prepared and proposed by the charter commission. Reprinted for the Bureau of Municipal Research, Dayton. Dayton: General Printing Co., 1913. 63 pp.

Denver, Colo. Charter of the city and county of Denver, framed by the second charter convention, February 6, 1904, adopted by vote March 29, 1904, and all amendments thereof to and including February 17, 1914. Containing also article xx of the constitution of the state of Colorado with amendment to section 6 thereof, revised and brought down to February 17, 1914. Compiled by J. I. Mullins and W. E. White. Denver: Smith-Brooks Printing Co., 1914. 225 pp.

Des Moines, Iowa. The Des Moines plan of commission government. Published by authority of the city council. Des Moines, 1912. 45 pp.

Detroit. The charter of the city of Detroit, with the amendments thereto and the acts of the legislature relating to or affecting the city of Detroit. Compiled under the direction of T. E. Tarsney, corporation counsel. Detroit: Thomas Smith Press, 1904. 664 pp.

Duluth, Minn. Charter of the city of Duluth. Duluth: Greer Printing Co., 1914. 38 pp.

Erie, Pa. A digest of the laws and ordinances for the government of the municipal corporation of the city of Erie in force April 2, 1906, embracing also the laws applicable to cities of the 3d class, etc. Compiled by THOMAS HANLON, city clerk. Erie: Dispatch Printing and Engraving Co., 1906. 316, 595 pp.

Fall River, Mass. The charter of the city of Fall River. Chapter 393 of the Massachusetts Acts and resolves, 1902, as amended by chapter 225 of the Massachusetts Acts and resolves, 1903. Fall River: Munroe Press, 1903. 20 pp.

Fort Worth, Texas. Charter of the city of Fort Worth. As passed by the 31st legislature, 1909. Fort Worth: Texas Printing Co., 1909. 116 pp.

Galveston, Texas. Charter of the city of Galveston as passed by the 28th legislature of the state of Texas and approved by the governor, March 30, 1903, and amendments thereto passed by the 29th and 30th legislatures. Galveston: F. J. Finck Stationery and Printing Co., 1907. 90, xxxix pp.

Grand Rapids, Mich. Present charter of the city of Grand Rapids. Grand Rapids: Duhamel Printing Co., 1912. 90 pp.

Harrisburgh, Pa. A digest of the laws and ordinances of the city of Harrisburgh, Pa., in force August 1, 1906. Published by authority. In two parts: Pt. I, by LOUIS RICHARDS; Pt. II, by J. M. LAMBERTON. Newark: Soney and Sage, 1906. xxii, 583 pp.

Hartford, Conn. The compiled charter and revised ordinances of the city of Hartford, including all amendments to the charter and all ordinances in force October 1, 1907, with an appendix containing all ordinances enacted from October 1, 1907, to May 1, 1908. Hartford: Case, Lockwood and Brainard Co., 1908. 199, 58 pp.

Haverhill, Mass. City of Haverhill, Massachusetts, 1911. Lists of city officers, duties of heads of departments, text of charter of 1908. Haverhill: Chase Press, 1911. 41 pp.

Houston, Texas. Charter of the city of Houston and general ordinances, passed by the city council from October 31, 1904, to and including October 31, 1910. Published by authority of the city council of Houston, to supplement the code of ordinances of 1904. Houston: W. H. Coyle and Co., 1910. 326, 23 pp.

Indianapolis, Ind. Acts of the general assembly of Indiana so far as they control the city of Indianapolis (in force April 15, 1909). Containing also the general ordinances of Indianapolis since revision of 1904 and prior to January 1, 1910, also an index to the penal ordinances in revision of 1904. Collated and annotated by L. A. Cox and J. F. Cowern. Indianapolis: Sentinel Printing Co., 1910. 776 pp.

Jacksonville, Fla. Charter and ordinances of the city of Jacksonville. Compiled by P. H. Odom, city attorney. Jacksonville: Kennedy Brown Hall Co., 1911. 523 pp.

Kansas City, Mo. Charter and revised ordinances of Kansas City, 1909. Compiled, arranged, annotated, and indexed by Rees Turpin, George Kingsley, and C. L. Shannon. Kansas City: Frank T. Riley Publishing Co., 1909. 1007 pp.

Lawrence, Mass. Massachusetts Laws, 1911. Ch. 621. An act to revise the charter of the city of Lawrence. (Separately printed.) Lawrence, 1911. 23 pp.

Los Angeles, Cal. Charter of the city of Los Angeles as adopted in January, 1889, amended January, 1903, January, 1905, February, 1907, February, 1909, and March, 1911. Compiled and indexed by C. H. Tribit, Jr. Los Angeles: Press of Parker and Stone Co., 1911. 198, 48 pp.

Amendments to the charter. March 24, 1913. 16 pp.

Louisville, Ky. Ninth biennial compilation of general ordinances of the city of Louisville, including the act entitled An act for the government of cities of the first class. Louisville: Courier-Journal Job Printing Co., 1911. 1000 pp.

Lynn, Mass. Revised charter of the city of Lynn. Lynn: Frank S. Whitten, 1910. 24 pp.

Minneapolis, Minn. Minneapolis city charter and ordinances. Court and board acts, park ordinances, rules of city council, etc. Published by authority of the city council of the city of Minneapolis. Compiled by FRANK HEALY, L. A. LYDIARD, W. H. MORSE, and H. N. KNOTT. Minneapolis, 1905. 1287 pp.

Nashville, Tenn. The charter of the city of Nashville. As amended by various acts of the general assembly of Tennessee, including all amendatory acts passed by the general assembly of 1909, to which all such acts of 1909 are prefixed. Nashville: McQuiddy Printing Co., 1909. 146 pp.

New Orleans, La. Act no. 159, senate bill no. 206, of Louisiana general assembly incorporating the city of New Orleans, to provide a commission form of government for the administration of the affairs of said city. New Orleans, 1912. 46 pp.

Newport, R. I. City charter and ordinances of the city of Newport, and general laws and public laws of the state of Rhode Island relating to said city. Revision of 1914. Newport, 1914. 513 pp.

Newton, Mass. City charter, with amendments to January 1, 1912, revised ordinances of 1912, standing regulations, statutes relating to the city. Newton: Stratton Press, 1913. 310 pp.

New York City. The Greater New York charter as enacted in 1897 and amended in 1901, as further amended to 1906. With notes . . . together with appendixes . . . and the English colonial charters. By MARK ASH and WILLIAM ASH. New York: Baker, Voorhis & Co., 1906. cxxx, 1373 pp.

Supplement, 1907–1912, to Ash's Annotated Greater New York charter. 3d edition, 1906. Containing amendments made by the New York legislature subsequent to 1906 and including 1911, with annotations of the judicial

decisions relating thereto from June 15, 1906, to January 1, 1912. By MARK ASH and WILLIAM ASH. New York: Baker, Voorhis & Co., 1912. 487 pp.

Amendments of 1912 to Ash's Annotated Greater New York charter. 3d edition, 1906, and supplement. Arranged by MARK ASH and WILLIAM ASH. New York: Baker, Voorhis & Co., 1912. 50 numbers. Printed on one side of leaf only.

Amendments of 1913 to Ash's Annotated Greater New York charter. 3d edition, 1906, and supplement, containing amendments made to charter at the legislative session of 1913. Arranged by MARK ASH and WILLIAM ASH. New York: Baker, Voorhis & Co., 1913. 64 numbers. Printed on one side of leaf only.

Similar publications for the years 1914 and 1915 have been issued.

The charter of the city of New York. Ch. 466, Laws of 1901, with all amendments to and including 1914. Brooklyn, 1914. 208 pp. (Eagle Library, xxix, no. 13, serial no. 119.)

A revision and condensation of the existing charter with all its amendments.

Norfolk, Va. The charter of the city of Norfolk, as adopted March 14, 1906, and as amended March 12 and 14, 1908. Norfolk: W. T. Barron and Co., 1908. 125 pp.

Oakland, Cal. The charter of the city of Oakland. Prepared and proposed by the board of freeholders elected July 6, 1910. Oakland: Borland-Nilson Press, 1911. 112 pp.

Philadelphia. The Bullitt Bill as adopted by the legislature of Pensylvania, June 1, 1885, and as amended and supplemented to 1909; together with the ordinances to carry it into effect, passed by the councils of Philadelphia. Printed in "Philadelphia," i, no. 1 (July 1909). Published by the city government. 15 pp.

Portland, Ore. Charter of the city of Portland in effect July 1, 1913, as revised by the council August 19, 1914. Portland: J. R. Rogers Press, 1914. 156 pp.

Richmond, Va. The charter of the city of Richmond. Revised to January 1, 1915. Compiled by the city attorney by authority. Richmond: C. W. Saunders, 1915. 92 pp.

St. Louis. Charter of the city of St. Louis. Prepared by the board of freeholders, elected by the people, April 1, 1913. St. Louis: Wilson Printing Co., 1914. 76 pp.

St. Paul, Minn. Charter of the city of St. Paul as adopted in 1900 and amended in 1904, 1906, 1908, 1910, 1912. St. Paul: Review Publishing Co., 1913. 148 pp.

San Francisco. Charter of the city and county of San Francisco, prepared and proposed by the board of freeholders elected December 27, 1897. With amendments adopted at special election December 4, 1902 (in effect February 5, 1903), amendments adopted November 5, 1907 (in effect November 22 and 23, 1907), and amendments adopted November 15, 1910 (in effect February 17, 1911). San Francisco: Brown and Power Stationery Co., 1911. 216 pp.

Scranton, Pa. A digest of the laws and ordinances of the city of Scranton, compiled by D. J. DAVIS, city solicitor, and H. R. VAN DEUSEN, assistant city solicitor. Published by authority. Scranton: Boyer Printing Co., 1907. 541 pp.

Seattle, Wash. The charter of the city of Seattle. Adopted at the general election March 3, 1896, as amended in 1900, 1902, 1904, 1906, 1908, 1910, 1911 and 1912. Published by authority of the city of Seattle. Seattle: Lowman and Hanford Co., 1912. 130 pp.

Spokane, Wash. Charter of the city of Spokane. Commission form of government. Adopted December 28, 1910. Spokane: Quick Print, 1911. 40 pp.

Springfield, Ohio. The charter of the city of Springfield, Ohio. Springfield: Winkler Printer, 1913. 36 pp.

Tacoma, Wash. Charter and general ordinances in force June 1, 1913. Tacoma, 1913. 579 pp.

SECTION XVII. MUNICIPAL ORDINANCES

1. Lists of References

Bates, F. G. Municipal ordinances and documents. Special Libraries, v, pp. 12–21 (January, 1914).

New York City. Public Library. List of city charters, ordinances and collected documents in the New York Public Library. New York, 1913. 383 pp.

2. The Law of Municipal Ordinances

Cooley, R. W. Handbook of the law of municipal corporations. St. Paul, 1914. 711 pp.
See index under Ordinances.

Dillon, J. F. Commentaries on the law of municipal corporations. 5th edition. 5 vols. Boston, 1911.
See index under Ordinances.

McLaughlin, A. C., and Hart, A. B., editors. Cyclopedia of American government. 3 vols. New York, 1914.
Ordinances, municipal, sources of ordinance power, ii, pp. 587–588. References, p. 588.

McQuillin, Eugene. Treatise on the law of municipal ordinances. Chicago, 1904. clxxxv, 1031 pp.

—— Treatise on the law of municipal corporations. 6 vols. Chicago, 1911–1913.
See index under Ordinances.

Macy, J. E. A selection of cases on municipal or public corporations. Boston, 1911. 503 pp.
See index under Ordinances.

3. Revised Ordinances of Forty Typical American Cities [1]

Albany, N. Y. Municipal code of the city of Albany, containing the Dongan charter, second class cities' law, the unrepealed portions of the former city charters, general and special state laws applicable to the city of Albany and the general city ordinances. Complete to September, 1910. Com-

[1] This list contains revised ordinances of cities which vary in size and which are located in all parts of the country. Only such collections as have been revised during the last ten years are included.

piled and arranged by F. M. DANAHER and C. H. MILLS, under the direction of A. L. ANDREWS, corporation counsel. Albany: Brandow Printing Co., 1910. 943 pp.

Atlanta, Ga. The charter and ordinances of the city of Atlanta. Code of 1910. Atlanta: Mutual Publishing Co., 1910. 1030 pp.

Baltimore. The Baltimore city code, containing public local laws of Maryland relating to the city of Baltimore and the ordinances of the mayor and city council of Baltimore in force on the first day of July, 1906. Compiled by CHARLES PIELERT under the direction of W. C. BRUCE, city solicitor. Baltimore: Peters Publishing and Printing Co., 1906. 1637 pp.

Berkeley, Cal. General ordinances of the city of Berkeley of the county of Alameda. May 1, 1911. Berkeley: Press of the Courier Publishing Co., 1911. 324 pp.

Boston. The revised ordinances of 1898 of the city of Boston and the revised regulations of 1898 of the board of aldermen of the city of Boston. 12th revision, 6th edition. Prepared by J. T. PRIEST. Boston: Printing Department, 1908. 292 pp.

Supplement to the revised ordinances of 1898. Containing the ordinances and regulations of the city of Boston passed in the municipal years 1908–1912. Doc. 61 (1913). Boston: Printing Department, 1913. 75 pp.

The revised ordinances of 1914 of the city of Boston; being the thirteenth revision; with tables showing the disposition of prior ordinances and regulations. Boston: Printing Department, 1915. 148 pp.

Cedar Rapids, Iowa. The municipal code of Cedar Rapids, Iowa, compiled by C. F. LIEBERGER. Cedar Rapids: Tribune Publishing Co., 1913. 416 pp.

Charleston, S. C. The revised ordinances of the city of Charleston. Revised and codified by direction of the city council. Charleston: Walker, Evans, and Cogswell Co., 1903. 462 pp.

Chicago. The Chicago code of 1911. Containing all the general ordinances of the city in force March 13, 1911. Revised and codified by E. J. BRUNDAGE, corporation counsel, assisted by H. W. Hayes and G. E. DIERSSON. Chicago: Callaghan and Co., 1911. 1270 pp.

Cincinnati, Ohio. Codification of ordinances of the city of Cincinnati, 1911. Revision, codification, rearrangement and repeal of certain ordinances in force prior to date of passage of this ordinance numbered 2585. Cincinnati, 1911. 385 pp.

Cleveland. Ordinances of the city of Cleveland. Revised by authority of the council under the direction of the city solicitor, and containing all the general ordinances in force January 1, 1907. Cleveland: C. Lezius Printing Co., 1907. 874 pp.

Covington, Ky. A compilation of the ordinances and municipal laws of the city of Covington, Ky., in force August 15, 1910. Containing the municipal act of March 19, 1894, and amendments thereto, and certain special acts relating to the city of Covington. Annotated and compiled by W. C. HALL. Covington: Semple and Schram, 1910. 752 pp.

Dallas, Texas. The code of the city of Dallas, Texas. Adopted April 10, 1911. Laws of the corporation in force at that date. Prepared by C. F. O'DONNELL. Dallas: Etheridge Printing Co., 1911. 381 pp.

Denver, Colo. The municipal code of the city of Denver approved April 12, 1906. Containing also article xx of the constitution of Colorado, the charter adopted March 29, 1904, liquor ordinances of annexed towns and cities. Compiled by C. W. VARNUM and J. F. ADAMS. Denver, 1906. 868 pp.

Detroit. Compiled ordinances of Detroit of 1912. Compiled by F. R. SCHMALZRIEDT. Arranged and published by C. A. NICHOLS, city clerk. Detroit: Houghton-Jacobson Printing Co., 1912. 899 pp.

Erie, Pa. A digest of the laws and ordinances for the government of the municipal corporation of the city of Erie, in force April 2, 1906, embracing also the laws applicable to cities of the third class, etc. Compiled by THOMAS HANLON, city clerk. Erie: Dispatch Printing and Engraving Co., 1906. xxii, 316, 595 pp.

Evansville, Ind. Revision of 1907 of the general ordinances of the city of Evansville. Containing also acts of the Indiana general assembly so far as they control said city. Compiled by D. C. GIVENS and A. J. VENEMAN. Evansville: Legeman Printing Co. 573 pp.

Grand Rapids, Mich. Compiled ordinances of Grand Rapids. Containing all ordinances passed by the common council in force September 1, 1906. Compiled and indexed by C. P. CAMPBELL. With a supplement containing ordinances passed between September 1, 1906, and July 1, 1907. Grand Rapids, [1907?]. xv, 487, 24 pp.

Harrisburgh, Pa. A digest of the laws and ordinances of the city of Harrisburgh, in force August 1, 1906. Published by authority. In two parts: Pt. I, by LOUIS RICHARDS; Pt. II, by J. L. LAMBERTON. Newark: Soney and Sage, 1906. xxii, 583 pp.

Hartford, Conn. The compiled charter and revised ordinances of the city of Hartford, including all amendments to the charter and all ordinances in force October 1, 1907, with an appendix containing all ordinances enacted from October 1, 1907, to May 1, 1908. Hartford: Case, Lockwood and Brainard Co., 1908. 199, 58 pp.

Indianapolis, Ind. Acts of the general assembly of Indiana so far as they control the city of Indianapolis (in force April 15, 1909). Containing also the general ordinances of Indianapolis since revision of 1904 and prior to January 1, 1910, also an index to the penal ordinances in revision of 1904. Collated and annotated by L. A. COX and J. F. COWERN. Indianapolis: Sentinel Printing Co., 1910. 776 pp.

Kansas City, Mo. Charter and revised ordinances of Kansas City, 1909. Compiled, arranged, annotated and indexed by REES TURPIN, GEORGE KINGSLEY, and C. L. SHANNON. Kansas City: Frank T. Riley Publishing Co., 1909. 1007 pp.

Louisville, Ky. Ninth biennial compilation of general ordinances of the city of Louisville, including the act entitled An act for the government of cities of the first class. Louisville: Courier-Journal Job Printing Co., 1911. 1000 pp.

Milwaukee, Wis. The general ordinances of the city of Milwaukee, to September 1, 1905, with amendments thereto and an appendix compiled and codified by CARL RUNGE, city attorney. Milwaukee: Edward Keogh Press, 1906. 762 pp.

Minneapolis, Minn. Minneapolis city charter and ordinances. Court and board acts, park ordinances, rules of city council, etc. Published by authority of the city council of the city of Minneapolis. Compiled by FRANK HEALY, L. A. LYDIARD, W. H. MORSE, and H. N. KNOTT. Minneapolis, 1905. 1287 pp.

Nashville, Tenn. Digest of the ordinances of the city of Nashville, to which are prefixed the state laws incorporating and relating to said city, with an appendix containing various grants, contracts and franchises. Compiled by HILL MCALISTER and E. J. SMITH. Nashville: Brandon Printing Co., 1908. 1284 pp.

New Bedford, Mass. Ordinances and rules and orders of the city of New Bedford, together with the city charter and amendments thereto, and special statutes and other matter affecting the city. New Bedford: E. Anthony and Sons, 1896. 405 pp.

Supplement to the ordinances of the city of New Bedford containing all ordinances passed in 1896 to January 1, 1904. New Bedford: Mercury Publishing Co., 1904. 41 pp.

Additional ordinances passed since issue of the volume entitled Charter and ordinances, 1896–1904. By the city council. New Bedford: E. Anthony and Sons, 1912. 108 pp.

New York City. Code of ordinances of the city of New York, adopted March 30, 1915, as amended July 16, 1915; with index, notations of sources and table of disposition of general ordinances repealed. Compiled by the Committee on Codification of Ordinances of the Board of Aldermen. New York, 1915. 641 pp.

Oakland, Cal. General municipal ordinances of the city of Oakland, in effect November 1, 1909. Oakland: Oakland Enquirer Publishing Co., 1909. 253, 17, 28 pp.

Pawtucket, R. I. General ordinances of the city of Pawtucket, revision of 1910. Pawtucket: John W. Little and Co., 1910. 200 pp.

Peoria, Ill. Revised ordinances of the city of Peoria. Peoria: Brown-Williams Printing Co., 1910. xix, 872 pp.

Philadelphia. A digest of laws and ordinances concerning Philadelphia, with notes and decisions and city solicitor's opinions relating thereto, 1701–1904. Compiled by W. F. BROWN, assisted by I. J. WILLIAMS. Philadelphia: J. L. H. Bayne, 1905. 1816 pp.

Supplement to the digest of laws and ordinances concerning Philadelphia, 1905–1910. Compiled by W. F. BROWN, assisted by G. A. WELSH. Philadelphia: The Compiler, 1910. 1385–1716 pp.

Pittsburgh. A digest of the acts of assembly relating to, and the general ordinances of the city of Pittsburgh from 1804 to November 12, 1908, with references to decisions thereon. Prepared under resolution of councils by R. T. MCELROY. Supplement and index prepared by J. D. EVANS. Pittsburgh: Press of Market Review Publishing Co., 1908. 1149 pp.

Portland, Ore. Charter and general ordinances of the city of Portland in force April 15, 1910. Portland: Dunham Printing Co., 1910. 1362 pp.

Providence, R. I. General ordinances of the city of Providence and the rules of the board of aldermen as revised in the year 1899. Providence: Providence Press, 1900. 370 pp.

Supplement no. 1 (December, 1899–January, 1901), 1902. 64 pp.

Supplement no. 2 (January 7, 1901–January 6, 1902), 1902. 103 pp.

Supplement no. 3 (January 6, 1902–January 5, 1903), 1903. 76 pp. Providence: Providence Press.

Richmond, Va. The charter and the general ordinances of the city of Richmond. Compiled by the city attorney by authority. Richmond: Capitol Printing Co., 1910. 748 pp.
This is known as the Richmond City Code.

St. Louis. The revised code of St. Louis, 1912 (general ordinances), by E. R. ROMBAUER. St. Louis: Woodward and Tiernan Co., 1913. 1285 pp.

St. Paul, Minn. Compiled ordinances of the city of St. Paul. Compiled under the direction of J. C. MICHAEL, corporation attorney, by H. D. FRANKEL. Corrected and revised to January 1, 1906. St. Paul: Review Publishing Co., 1908. 1245 pp.

Salt Lake City, Utah. Revised ordinances of Salt Lake City, including all ordinances of a general nature in force December 11, 1903, and all franchises and special grants. Revised, compiled and arranged by G. L. NYE, city attorney. Salt Lake City: The Deseret News, 1904. xxxi, 616 pp.

San Francisco. General ordinances of the board of supervisors of the city and county of San Francisco. In effect May 1, 1910. San Francisco: Press of the James H. Barry Co., 1910. 807 pp.

Scranton, Pa. A digest of the laws and ordinances of the city of Scranton. Compiled by D. J. DAVIS, city solicitor, and H. R. VAN DEUSEN, assistant city solicitor. Published by authority. Scranton: Boyer Printing Co., 1907. 541 pp.

Seattle, Wash. The charter of the city of Seattle, adopted at the general election March 3, 1896, as amended in 1900, 1902, 1904, 1906, 1908, 1910 and 1911, and the general ordinances, 1889–1907. Published by authority of the

city of Seattle. Seattle: Lowman and Hanford Co., 1911. 110, 91–965 pp.

Somerville, Mass. Revised ordinances of 1911. Somerville Journal, April 20, 1911, pp. 11–20.

Spokane, Wash. Municipal code of the city of Spokane, together with the charter and amendments, rules of the city council and list of franchise ordinances. Revised, compiled, and codified by E. O. CONNOR. Spokane: Inland Printing Co., 1903. 630 pp.

Springfield, Mass. The revised ordinances of the city of Springfield, approved December 21, 1904, with the city charter, amendments, special statutes, rules and orders for the regulation of hackney carriages, street musicians, and public amusements, rules and orders of the board of aldermen and of the common council, and the joint rules and orders of the city council. Springfield: Springfield Printing and Binding Co., 1905. 335 pp.

Syracuse, N. Y. Ordinances of the city of Syracuse, as amended July 1, 1907. Syracuse, 1907. 62 pp.

Tacoma, Wash. Charter and general ordinances in force June 1, 1913. Tacoma, 1913. 579 pp.

Woburn, Mass. Revised ordinances of 1906. Woburn, 1906. 156 pp.

Yonkers, N. Y. Second class cities' laws, supplemental charter and code of ordinances. Yonkers, 1912. 896 pp.

SECTION XVIII. CITY DOCUMENTS, MANUALS, AND REGISTERS[1]

1. CITY DOCUMENTS

Albany, N. Y. Common Council. Proceedings, 1869–. Albany, 1870–.

Published annually in one volume from 1869–1896; from 1897 to the present, published in two volumes, vol. ii consisting of the reports of city officers.

[1] The array of publications which come under this heading is so large that only a very small part of it can be listed here. The purpose of this section is to indicate the usual form in which various cities issue their annual reports and to suggest the scope of a small working collection of these materials for student use.

Baltimore. Mayor's message and reports of city officers. 1857–. Baltimore, 1860–.

Boston.

City Council. City documents. 1835–. Boston, 1836–.

Executive Department. Annual reports. 1890–. Boston, 1891–.

Consists of the address of the mayor and annual reports of departments responsible to him.

Cleveland. Annual reports of the various departments of government. 1874–. Cleveland, 1875–.

Columbus, Ohio. Annual reports of the various departments, together with a financial statement of the receipts and disbursements, etc. 1874–. Columbus, 1875–.

Detroit. Annual reports of the several municipal commissions, boards and officers of the city of Detroit. 1869/70–. Detroit, 1871–.

Hartford, Conn. Municipal register and city yearbook and the annual reports. 1880–. Hartford, 1881–.

From 1859–1879 the publication was called Mayor's address and city government, and the annual reports of the several departments.

Indianapolis, Ind. Mayor. Annual message; with the annual reports of the heads of departments. 1891–. Indianapolis, 1892–.

Louisville, Ky. Annual reports. 1871–. Louisville, 1872–.

Lowell, Mass. City documents. 1862–. Lowell, 1863–.

Milwaukee, Wis. Department reports. 1868–. Milwaukee, 1869–.

Minneapolis, Minn. Annual reports of the various city officers of the city of Minneapolis. 1875–. Minneapolis, 1876–.

New Haven, Conn. City year book. No. 1, 1860. New Haven, 1861–.

Philadelphia. Mayor. Annual message of the mayor with accompanying documents. 1855–. Philadelphia, 1856–.

Pittsburgh. Annual reports of the executive departments. 1909/10–. Pittsburgh, 1910–.

Portland, Ore. Mayor's message and municipal reports. 1894–. Portland, 1895–.

Richmond, Va. Mayor. Annual message and accompanying documents of the mayor to the city council. 1891–. Richmond, 1892–.

St. Louis. Mayor's message with accompanying documents. 1859–. St. Louis, 1860–.

St. Paul, Minn. Annual reports of the city officers. 1885–. St. Paul, 1886–.

Salt Lake City, Utah. The annual message of the mayor with the annual reports of the city officers of Salt Lake City. 1890–. Salt Lake City, 1891–.

San Francisco. Board of Supervisors. San Francisco municipal reports. 1859/60–. San Francisco, 1860–.

Savannah, Ga. Report of the mayor, together with the reports of the city officers. 1854–. Savannah, 1855–.

Worcester, Mass. City documents. No. 1, 1848. Worcester, 1849–.

2. Manuals and Registers

Nearly all cities issue annual publications of this sort. In the larger cities the titles are as follows:

Baltimore. Municipal hand-book.

Boston. Municipal register: organization of the city government of Boston.

Chicago. Chicago city manual.

Detroit. Municipal manual and official directory of the city of Detroit.

New York City. Municipal year book of the city of New York.

Philadelphia. Manual of the city councils.

Pittsburgh. Municipal year book of the city of Pittsburgh.

SECTION XIX. THE MAYOR

1. Lists of References

Brooks, R. C. A bibliography of municipal problems and city conditions. 2d edition. New York, 1901. 346 pp.
The mayor, p. 152.

Munro, W. B. The government of American cities. New York, 1912. 401 pp.
Ch. ix (pp. 207–236), The mayor. References, p. 236.

2. General Discussions

Beard, C. A. American city government; a survey of newer tendencies. New York, 1912. 420 pp.
Ch. iv (pp. 88–128), Municipal government and administration.

Bishop, J. T. The bürgermeister, Germany's chief municipal magistrate. American Political Science Review, ii, pp. 396–410 (May, 1908).

Fairlie, J. A. Municipal administration. New York, 1906. 448 pp.
Ch. xix (pp. 411–421), The duties and powers of mayor in European and American cities.

Goodnow, F. J. City government in the United States. New York, 1904. 315 pp.
Ch. viii (pp. 176–203), The city executive.

—— Municipal problems. New York, 1907. 321 pp.
Ch. x (pp. 247–281), The city executive.

Hatton, A. R. Digest of city charters. Chicago, 1906. 351 pp.
The city executive, the mayor. Qualifications, manner of election, term and salary, etc., pp. 246–272.

McLaughlin, A. C., and Hart, A. B., editors. Cyclopedia of American government. 3 vols. New York, 1914.
Mayor and executive power in American cities, ii, pp. 411–415; references, p. 415. Mayor in European cities, ii, pp. 415–416; references, p. 416.

Munro, W. B. The government of American cities. New York, 1912. 401 pp.
Ch. ix (pp. 207–236), The mayor.

—— The office of mayor in France. Political Science Quarterly, xxii, pp. 645–662 (December, 1907).

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CHAPTER IV

CITY PLANNING AND PUBLIC IMPROVEMENTS

SECTION XXV. CITY PLANNING AND MUNICIPAL ART

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New York City.

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TOMKINS, CALVIN. Organization of the port of New York. Proceedings, Third National Conference on City Planning, pp. 147–161 (1911).

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HASSKAR, J. F. Philadelphia harbor improvements. *Ibid.*, pp. 162–170.

WEBSTER, G. S. The improvement of the Delaware river and harbor and the landing facilities of the port of Philadelphia. Journal of the Franklin Institute, clx, pp. 161–179 (September, 1905).

San Francisco. STAFFORD, W. V. The state wharves of San Francisco, a lucrative property. Overland Monthly, lvi, pp. 343–352 (October, 1910).

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BRIDGES, ROBERT. Public ownership of docks and railway terminal facilities means the industrial and commerical supremacy of the city of Seattle. Seattle, 1912. 16 pp.

Seattle, Wash. (continued).

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CHAPTER V

PUBLIC UTILITIES

SECTION XXXIII. WATER SUPPLY

1. Lists of References

Brooks, R. C. A bibliography of municipal problems and city conditions. 2d edition. New York, 1901. 346 pp.

Water supply and waterworks, pp. 169, 302–310. Contains references to many older volumes, reports and periodical articles relating to water-supply problems in both America and Europe.

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Water supply, *passim*. A list compiled from the engineering index which has been published monthly in the Engineering Magazine since 1906.

London County Council. London water supply, with a bibliography of the principal reports and papers on the subject. London, 1905. 65, 135 pp.

Turneaure, F. E., and Russell, H. L. Public water supplies. 2d edition. New York, 1913. 808 pp.

Excellent lists at the end of each chapter.

United States. Superintendent of Documents. United States public documents relating to health and hygiene including water pollution and purification, food and diet, etc. 3d edition. Washington, 1902. 72 pp. (Price list no. 51.)

2. History of Water Supply

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Contains the history and description of public water-supply systems in the United States and Canada.

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Fisher, W. J. London water supply; old and new. Westminster Review, clxiii, pp. 31–38 (January, 1905).

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WEGMAN, E. Ancient and modern water works. Proceedings, American Water Works Association, 1912, pp. 1–34.
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3. ELEMENTARY DISCUSSIONS

BAKER, M. N. Municipal engineering and sanitation. New York, 1906. 317 pp.
Ch. ix, Water and its distribution; ch. x, Water purification; ch. xi, Water consumption and waste prevention.

BASKERVILLE, C., editor. Municipal chemistry. New York, 1911. 526 pp.
Ch. ii, Drinking water and disease, by W. P. Mason; ch. iii, Municipal water supply, by A. D. Flinn; ch. iv, Purification of water, by W. P. Mason.

CORFIELD, W. H. Water and water supply. 2d American edition. New York, 1890. 144 pp.
An elementary volume in the Van Nostrand science series.

ENCYCLOPAEDIA BRITANNICA. 11th edition. New York, 1911. 29 vols.
Water supply, xxviii, pp. 387–409.

GOULD, E. S. The elements of water supply engineering. New York, 1899. 168 pp.
An excellent brief manual issued by the Engineering News Publishing Company.

HAZEN, ALLEN. Clean water and how to get it. 2d edition. New York, 1914. 196 pp.
The clearest and most helpful short work on the subject for the average citizen's use.

MIDDLETON, R. E. Water supply. London, 1903. 168 pp.
A student's handbook on the conditions governing the selection of sources and the distribution of water.

TURNEAURE, F. E. Water supply. Chicago, 1908. 143 pp.
Issued by the Armour Institute, Chicago. It covers briefly the entire field of water supply and consumption, construction of wells, reservoirs, pipe lines, and purification plants.

WHIPPLE, G. C. The value of pure water. New York, 1907. 84 pp.
"The whole study is intended merely to illustrate the fact that an impure water-supply affects not only the health and comfort of a community, but also the individual pocketbooks of the people." Pt. I. The value of pure water; Pt. II. What is pure and wholesome water? Pt. III. The disadvantages of hard water.

4. TECHNICAL DISCUSSIONS AND TREATISES

BINNIE, A. R. Rainfall reservoirs, and water supply. New York, 1913. 157 pp.
Considers some of the more important points in water-works engineering.

MASON, W. P. Water supply. New York, 1902. 448 pp.
Considers water supply principally from a sanitary standpoint.

RIDEAL, SAMUEL, and E. K. Water supplies; their purification, filtration and sterilization. New York, 1915. 274 pp.
A British book, dealing chiefly with sources of supply, quality and methods of treatment. Gives unusual attention, for an English book, to American theory and practice.

THRESH, J. C. Water and water supplies. 3d edition. Philadelphia, 1901. 527 pp.
A careful discussion dealing with the various sources of water; analysis, purification, and protection of water supplies; storage, distribution, and charges for water; and rural and village water supplies.

TURNEAURE, F. E., and RUSSELL, H. L. Public water supplies. 2d edition. New York, 1913. 808 pp.
Covers every branch of the subject.

VERNON-HARCOURT, L. F. Sanitary engineering with respect to water supply and sewage disposal. London, 1907. 419 pp.
Water supply, pp. 1–284. Deals with ancient waterworks; sources of water supply; wells; lakes and storage reservoirs; earthen and rubble dams; masonry dams; intakes, and conveyance and storage of supply; purification of water supplies; and distribution.

5. Sources of Supply

Hill, J. W. The purification of public water supplies. New York, 1898. 304 pp.

Ch. ii (pp. 14–40), Sources of public water supply.

Mathews, J. L. The conservation of water. New York, 1910. 289 pp.

Swain, G. F. Conservation of water by storage. New Haven, 1915. 384 pp.

Turneaure, F. E., and Russell, H. L. Public water supplies. 2d edition. New York, 1913. 808 pp.

Especially ch. iii–vii (with bibliographies).

Turner, J. H. T., and Brightmore, A. W. Principles of waterworks engineering. 3d edition. New York, 1907. 429 pp.

Ch. i (pp. 1–34), The sources of water supply.

6. Water-supply Engineering and Construction

Folwell, A. P. Water supply engineering: the designing, construction and maintenance of water-supply systems, both city and irrigation. New York, 1909. 576 pp.

Commonly recognized as a standard work on the subject.

Goodell, John. Water-works for small cities and towns. New York, 1899. 286 pp.

Contains excellent material relating to design and construction of small plants.

Hague, C. A. Pumping engines for water works. New York, 1907. 372 pp.

Describes and discusses the design of pumping stations, also every recognized type of pumping equipment.

Schuyler, J. D. Reservoirs for irrigation, water-power, and domestic water supply. New York, 1909. 573 pp.

The design and construction of masonry, earthen, steel, and reinforced concrete dams and reservoirs, with appendix containing tabulated data on cost per acre-foot of reservoir construction.

Turner, J. H. T., and Brightmore, A. W. Principles of waterworks engineering. 3d edition. New York, 1907. 429 pp.

An orderly statement of the matters that especially occupy the attention of the engineer engaged in the construction of water works.

TURNEAURE, F. E., and RUSSELL, H. L. Public water supplies. 2d edition. New York, 1913. 808 pp.
Especially ch. xi–xviii (with bibliographies).

7. WATER-SUPPLY MANAGEMENT AND MAINTENANCE

HEIM, J. B. Management of water works. Proceedings, American Water Works Association, 1902, pp. 81–90.
Outlines a few of the things a superintendent should look out for.

HUBBARD, W. D., and KIERSTED, WYNKOOP. Waterworks management and maintenance. New York, 1907. 429 pp.
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TURNEAURE, F. E., and RUSSELL, H. L. Public water supplies. 2d edition. New York, 1913. 808 pp.
Ch. xxix (pp. 778–795), Operation and maintenance (with bibliography).

8. WATER ANALYSIS

American Public Health Association. Standard methods for the examination of water and sewage. 2d edition. New York, 1912. 144 pp.
The recognized authority on methods of analysis, compiled by the laboratory section of the association.

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A useful, non-technical little volume in the Van Nostrand science series.

LEFFMAN, HENRY. Examination of water for sanitary and technic purposes, by chemical and bacteriologic methods. 6th edition. Philadelphia, 1909. 144 pp.
A standard text-book of water analysis.

MASON, W. P. Examination of water. 3d edition. New York, 1906. 155 pp.
A technical work on chemical and bacteriological analysis of water.

PRESCOTT, S. C., and WINSLOW, C.-E. A. Elements of water bacteriology, with special reference to sanitary water analysis. 3d edition. New York, 1913. 318 pp.
Contains a full list of references to works on the subject, pp. 281–306.

RAFTER, G. W. The microscopical examination of potable water. New York, 1892. 160 pp.

An older volume in the Van Nostrand science series, but still regarded as a useful elementary treatise.

THRESH, J. C. The examination of waters and water supplies. 2d edition. Philadelphia, 1913. 644 pp.

Deals with: Pt. I. The examination of the sources from which water is derived; Pt. II. Various methods of examining water and interpretation of the results; Pt. III. Analytical processes and methods of examination.

WHIPPLE, G. C., and BUNKER, J. W. M. The microscopy of drinking water. 3d edition revised. New York, 1914. 409 pp.

A complete account of the relation of microscopic organisms, other than bacteria, to water supplies, with a chapter on the use of the microscope, and a full bibliography.

9. WATER PURIFICATION

(*a*) *Elementary discussions*

BAKER, M. N. Municipal engineering and sanitation. New York, 1906. 317 pp.

Ch. x (pp. 76–83), Water purification.

BRIDGE, J. H. The purification of public water supplies; a comparison in methods, costs and results. New York, 1908. 40 pp.

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CAIRD, J. M. The efficiency of the American process of water filtration. Proceedings, American Water Works Association, 1908, pp. 371–458.

Discusses the success of the rapid sand filter, with illustrations from a number of cities.

ELLMS, J. W. Disinfection of public water supplies. American City, ix, pp. 564–568 (December, 1913).

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HAZEN, ALLEN. Clean water and how to get it. 2d edition. New York, 1914. 196 pp.

Treats of all standard purification methods in an enlightening and interesting way. By far the best short sketch of this subject.

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—— Present-day water filtration practice. Journal, American Water Works Association, i, pp. 31–80 (March, 1914).
See also discussion in *Ibid.*, i, pp. 466–522 (September, 1914).

MASON, W. P. The purification of water. In Municipal chemistry, edited by C. Baskerville, ch. iv (pp. 71–79). New York, 1911. 526 pp.

TILLMANS, JOSEF. Water purification and sewage disposal. Translated by H. S. Taylor. New York, 1913. 143 pp.
Water purification, pp. 1–62. Describes various filtration and sterilization processes, with frequent references to plants in German cities.

WHIPPLE, G. C. Clean water as a municipal asset. American City, iv, pp. 161–165 (April, 1911).
Emphasizes the need of clean water as well as a supply that is free from harmful bacteria. Points out necessity of different treatment for supplies coming from different sources.

—— Standards of purity for rivers and waterways. *Ibid.*, vii, pp. 559–561 (December, 1912).
A committee report submitted at the joint meeting of the Great Lakes International Pure Water Association and the National Association for Preventing the Pollution of Rivers and Waterways, at Cleveland (October, 1912).

(*b*) *Technical discussions and treatises*

DIBDIN, W. J. The purification of sewage and water. 3d edition. New York, 1903. 380 pp.
Brief discussion of filtration and aeration of water (pp. 233–288) with examples chiefly from English experience.

DON, JOHN, and CHISHOLM, JOHN. Modern methods of water purification. London, 1913. 398 pp.
A substantial English discussion with excellent illustrations, diagrams and tables. Contains a selected bibliography, pp. 386–389.

FUERTES, J. H. Water filtration works. New York, 1901. 283 pp.
Describes the construction and operation of slow and rapid sand filters, in accordance with the practice of a decade ago.

HAZEN, ALLEN. The filtration of public water supplies. 3d edition. New York, 1900. 321 pp.

One of the best-known and most widely-used works on the subject. It is still the leading book, particularly on slow sand filtration, but has not been brought down to date. It embodies figures relating to the nature and extent of filtration works in America and abroad, with general descriptions of the more important among them. Contains list of references, pp. 277–287.

HOUSTON, A. C. Studies in water supply. London, 1913. 204 pp.

Considers chiefly various methods of purification and analysis; also the effect of impure water. Draws largely on the wide experience of the author in connection with the water supply of London.

HOWE, FREELAND. Scientific aspect of water purification. Pittsburgh, 1906. 53 pp.

A short technical work giving formulas and applying the principles of physical chemistry.

KELLERMAN, K. F., and BECKWITH, T. D. The effect of copper upon water bacteria. United States Department of Agriculture. Bureau of Plant Industry. Bulletin no. 100, pp. 57–71. Washington, 1907.

Gives results of treating different kinds of bacilli with copper or its salts.

STEIN, M. F. Water purification plants and their operation. New York, 1915. 258 pp.

TURNEAURE, F. E., and RUSSELL, H. L. Public water supplies. 2d edition. New York, 1913. 808 pp.

Ch. xix, Objects and methods of purification; ch. xx, Sedimentation; ch. xxi, Slow sand filtration; ch. xxii, Rapid sand filtration; ch. xxiii, Miscellaneous purification processes. Literature at end of each chapter.

WEST, F. D. Disinfecting Philadelphia's water supply. Municipal Journal, xxxvi, pp. 771–779 (May 28, 1914).

A technical discussion of disinfection with chloride of lime and liquid chlorine, giving experiences at Torresdale filtration plant.

WESTON, R. S. The purification of ground waters containing iron and manganese. Transactions, American Society of Civil Engineers, lxiv, pp. 112–207 (1909).

A full discussion of the subject.

Water purification plants. Municipal Journal, xxxv, pp. 318–320 (September 4, 1913).

Tables showing methods of purification employed in 120 cities, with 86 municipal and 34 privately-owned plants. Processes tabulated are sedimentation, filtration, treatment with alum, hypochlorite, copper sulphate, treatment for algae, aeration, and softening.

10. The Protection of Water Supply from Algae

Moore, G. T. The contamination of public water supplies by algae. United States Department of Agriculture Yearbook, 1902, pp. 175–186.

Considers various kinds of algae and briefly outlines the means used to prevent them from polluting water supply.

——, and Kellerman, K. F. The method of destroying or preventing the growth of algae in water supplies. Washington, 1904. 44 pp. (United States Department of Agriculture. Bureau of Plant Industry. Bulletin no. 64.)

Discussion of kinds of algae and troubles caused by them; advocates use of copper sulphate to prevent the bad effects due to algae.

—— Copper as an algicide and disinfectant in water supplies. Washington, 1905. 55 pp. (*Ibid.* Bulletin no. 76.)

Supplements Bulletin 64. A discussion of actual experience; attempts to arrange and correlate the results of laboratory work and practical applications of the method. Shows that copper in drinking water is not harmful to man.

11. The Water Supply of Foreign Cities

Annuaire statistique et descriptif des distributions d'eau de France, Algérie, Tunisie, Belgique, Suisse et grand-duché de Luxembourg. Vol. i, 1903. Paris. Issued annually.

Deutscher Verein von Gas und Wasserfachmännern. Zusammenstellung des Betriebs-Ergebnisse von Wasserwerken, 1913. Statistische. Berlin, 1914.

Water works directory and statistics. London: Hazell, Watson and Viney. Published annually since 1877.

A directory of the waterworks of Great Britain and Ireland, containing names of officials and various statistics, arranged alphabetically by cities.

United States. Department of Commerce and Labor. The water supply of foreign cities. Daily Consular and Trade Reports, no. 6, pp. 81–87 (January 9, 1911).

Berlin.

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The latest publication covers the years 1906–1910 (2 vols. 1912).

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Local Government Board. Metropolitan water supply. London, 1913. 32 pp.

SHADWELL, ARTHUR. The London water supply. London, 1899. 272 pp.

Gives history of the London water companies and takes up the question of public control.

SISLEY, RICHARD. The London water supply — a retrospect and a survey. London, 1899. 192 pp.

Considers chiefly: (1) the sources of supply; (2) the methods of purification; (3) the quality supplied; and (4) the storage capacity of reservoirs — for each of the London water companies.

Paris.

Commission scientifique de perfectionnement de l'observatoire municipal de Montsouris. Travaux de l'année 1902 sur les eaux d'alimentation et les eaux d'égouts de la ville de Paris. Procès-verbaux de la Commission. Rapport de la surveillance médicale des sources. Étude des eaux dérivées. Étude sur la filtration des eaux d'alimentation. Étude sur l'épandage des eaux d'égouts. Paris, 1903. 420 pp.

Conseil Municipal. Rapport sur le service des eaux à Paris, présenté par AMBROISE RENDU. Paris, 1904. 57 pp.

IMBEAUX, E. Les eaux de Paris, Versailles et la banlieue. Paris, 1903. 138 pp.

London County Council. Report on the Paris water supply. By A. R. BINNIE. London, 1894. 26 pp.

12. THE WATER SUPPLY OF AMERICAN CITIES

(Boston, Chicago, New York, Los Angeles, and San Francisco)

Boston.

Metropolitan Water Board. Water supply and work of the metropolitan water district. Boston, 1900. 43 pp.

A brief report telling of the formation of the metropolitan water district and describing the water system. Has some good illustrations.

Boston (continued).

Metropolitan Water and Sewerage Board. Annual reports since 1901. Boston.

Chicago.

ERICSON, JOHN. Chicago waterworks — history, plants, etc. Journal, Western Society of Engineers, xviii, pp. 763–796 (October, 1913).

A brief history of the system with recommendations for certain improvements.

MAURY, D. H. The water works system of Chicago. Chicago, 1911. 52 pp.

A report of the Chicago Commission on City Expenditures analyzing the condition of the system, giving tables and diagrams of costs, and suggesting some changes.

THURSTON, H. W. The history of Chicago's water supply. Chicago, 1902.

Los Angeles.

BRENNECKE, OLGA. How Los Angeles built the greatest aqueduct in the world. Craftsman, xxiii, pp. 188–196 (November, 1912).

Outlines briefly the conditions leading to the building of the aqueduct by the city; has some very good illustrations.

Bureau of the Los Angeles Aqueduct. Annual reports, i–vii. Los Angeles, 1906–1912.

Give full information on the progress of the work, with good charts and illustrations. Contain reports of the engineering, stores, accounting and legal departments, covering all phases of the work.

HEINLY, B. A. Construction and completion of the Los Angeles aqueduct. Engineering Magazine, xlv, pp. 1–17 (April, 1913).

A clear and concise summary of the history and construction of the aqueduct.

HURLBUT, W. W. Completion of the Los Angeles aqueduct. Engineering Record, lxviii, pp. 482–486 (November 1, 1913).

A good brief description from an engineering standpoint.

New York City.

Board of Water Supply. Annual reports. First, 1906. New York, 1907.

Contain much valuable material.

New York City (continued).

—— Catskill water supply. New York, 1912. 186 pp.

—— Catskill water supply. New York, 1913. 32 pp.

A brief general description with plans of the work.

FREEMAN, J. R. Report on New York's water supply. New York, 1900. 587 pp.

WHITE, LAZARUS. The Catskill water supply of New York City. New York, 1913. 755 pp.

A full record of the history and construction of the Catskill aqueduct by one who was in direct contact with the work.

San Francisco.

CHITTENDEN, H. M., and POWELL, A. O. The water supply of San Francisco. San Francisco, 1912. 44 pp.

A report on the system of the Spring Valley Water Company. The salient features of the dispute between the city and the company are grouped into a concise brief, with a statement of the author's conclusions and the reasons therefor.

FREEMAN, J. R. The Hetch Hetchy water supply for San Francisco. San Francisco, 1912. 400 pp.

A careful report on the proposed use of a portion of the Hetch Hetchy, Eleanor, and Cherry Valleys as reservoirs for impounding flood waters of the Tuolumne River, and appurtenant works for the water supply of San Francisco and neighboring cities.

Spring Valley Water Company. The future water supply of San Francisco. San Francisco, 1912. 506 pp.

A report to the Secretary of the Interior and the Advisory Board of Engineers of the United States Army, aiming to show that the Spring Valley Company can continue to supply the city with all the water it will need, and that it is inadvisable to allow the development of the Hetch Hetchy project.

United States. Engineer Department. Hetch Hetchy Valley. Washington, 1913. 146 pp.

Report of the Advisory Board of Army Engineers on investigations relative to sources of water supply for San Francisco and Bay communities. Considers possibility of other sources and so compares their merits with those of the Hetch Hetchy project.

Reports on the water supply of San Francisco from 1900 to 1908. San Francisco, 1908. 230 pp.

Includes outline of history of the city's water supply, its condition, and proposed extensions and improvements, especially in regard to the Hetch Hetchy project.

13. Water Consumption and Waste

Bailey, G. I. The effect of water meters on water consumption in the larger cities of the United States. Journal, New England Waterworks Association, xv, pp. 351–359 (June, 1901).

Baker, M. N. Municipal engineering and sanitation. New York, 1906. 317 pp.
Ch. xi (pp. 84–89), Water consumption and waste prevention. A brief general discussion; advocates use of meters.

Brackett, Dexter. Report on the measurement, consumption and waste of water supplied to the metropolitan water district (of Massachusetts). Journal, New England Waterworks Association, xviii, pp. 107–160 (June, 1904).

Cole, E. S. The cost of leaks — does it pay to stop them? American City, vii, pp. 39–43 (July, 1912).
Briefly attempts to show relation of leakage to cost of maintaining a water supply. Has good tables of water consumption for more than 150 cities.

—— The pitometer and water works losses. Proceedings, American Water Works Association, 1907, pp. 136–156.
Discusses waste and the use of the pitometer.

Fuertes, J. H. Waste of water in New York and its reduction by meters and inspection. New York, 1906. 272 pp.
A report made to the committee on water-supply of the Merchants' Association of New York City. Waste reduction in American and German cities, appendix D, pp. 127–229. Deals with conditions in a large number of cities. A very good list of references, appendix E, pp. 231–244.

Hazen, Allen. Clean water and how to get it. 2d edition. New York, 1914. 196 pp.
Ch. xiii (pp. 133–148), The use, waste and measurement of water. Considers the methods of charging for water when a meter is used; points out a fair basis.

Hoxie, F. J. Locating water main leaks. Municipal Journal, xxxv, pp. 382–383 (September 18, 1913).
A technical discussion of the use of the alkaline-solution method in locating leaks.

JOHNSON, C. O. Water supply and the prevention of waste in leading European cities. New York, 1903. 289 pp.

An elaborate report on the subject, presented to the Merchants' Association of New York City.

THOMPSON, H. S. Water measurements and the prevention of water waste in New York City. Engineering News, lxvii, pp. 480–481 (March 14, 1912).

A statement of facts recently disclosed by elaborate pitometer tests.

The effect of meters on water consumption. American City, vii, p. 45 (July, 1912).

A good table showing consumption of water in ten cities over a period of ten or more years.

Water works statistics of American cities. Municipal Journal, xxxvi, pp. 103–106 (January 22, 1914).

Good tables showing daily consumption for about 300 cities. For more detailed statistics, see below, pp. 181–182.

See also list of further references in F. E. TURNEAURE and H. L. RUSSELL, Public water supplies, pp. 793–794. 2d edition. New York, 1913. 808 pp.

14. WATER-WASTE SURVEYS IN AMERICAN CITIES

Boston. Metropolitan Water and Sewerage Board. Report by DEXTER BRACKETT on the measurement, consumption and waste of water supplied to the metropolitan district. Boston, 1904. 62 pp.

May also be found in Journal of the New England Waterworks Association, xviii, pp. 107–160 (June, 1904).

Chicago. PHILLIPS, T. C. Water waste surveys in Chicago. Engineering News, lxv, p. 260 (March 2, 1911); Engineering Record, lxiii, pp. 256–257 (March 4, 1911); Proceedings, American Water Works Association, 1909, pp. 39–71.

Lancaster, Pa. SHAW, F. H. Methods and cost of a leakage survey for the Lancaster, Pa., waterworks. Municipal Engineering, xliii, pp. 31–32 (July, 1912).

Memphis. DAVIS, C. E. Investigation of water waste in Memphis, Tenn. *Ibid.*, xli, pp. 104–110 (August, 1911).

Explains fully the methods of investigation with a statement of the results obtained.

Milwaukee. PALMER, RAY, BROWN, W. R., and others. Water wastes survey. Milwaukee, 1911. 39 pp. (Milwaukee Bureau of Economy and Efficiency. Bulletin no. 11 (December, 1911).)

A careful survey and recommendations based thereon.

New York City. COLE, E. S. The water waste investigation in New York. Proceedings, American Water Works Association, 1904, pp. 478–485.

15. PROBLEMS OF WATER DISTRIBUTION

(a) *Meters, metering, methods, and results*

BEMIS, E. W. Are water meters advantageous or otherwise? Engineering Record, lxiii, pp. 107–108 (January 28, 1911).

—— Water meters and waste detection policies. *Ibid.*, lxiv, pp. 58–59 (July 8, 1911).

—— The purchase, setting and testing of water meters. *Ibid.*, lxiii, pp. 251–252 (March 4, 1911).

—— The ownership, care, repair, and reading of meters. *Ibid.*, lxiii, pp. 341–343 (March 25, 1911).

These four articles cover the whole ground in a very concise and practical manner.

CHELLEW, W. J. How meters promote equity and economy in the distribution of water. American City, vi, pp. 665–667 (April, 1912).

Gives causes of water waste and figures showing amount wasted; answers objections to meters.

CUDDEBACK, A. W. The care and maintenance of meters in service. Proceedings, American Water Works Association, 1910, pp. 42–63.

A brief discussion of the best types of meters under various conditions, testing of meters, etc. Gives curves showing results of various tests.

—— The care and maintenance of meters and the effect on revenue. American City, ix, pp. 343–346 (October, 1913).

Deals chiefly with the discovery and causes of meters not registering full amount of water used.

FOLWELL, A. P. Water supply engineering. New York, 1909. 576 pp.

Water meters and rates, pp. 536–542.

KNOWLES, MORRIS. Equitable water rates; the result of metering. American City, viii, pp. 172–177 (February, 1913).
General discussion of advantages of meters in bringing about more equitable adjustment of water charges and cutting down waste.

VOLKHART, WILLIAM. Meters and meter system. Proceedings, American Water Works Association, 1907, pp. 40–46.
Discusses the best way of installing meters.

(*b*) *Water rates; their basis, amount and method of collection*

BEMIS, E. W. Water meter rates. Engineering Record, lxiii, pp. 514–515 (May 6, 1911).
Discusses the proper revenue to be expected, taking into account such features as the sliding scale, the minimum charge, meter rentals, special rates, etc.

CLOWES, J. H. Efficiency in water revenue collection. Annals of the American Academy of Political and Social Science, lxi, pp. 86–92 (May, 1912).
Deals chiefly with a better system of inspection, improved accounting methods, and more efficient organization of the revenue-collecting bureau.

EARL, G. G. Water rates. Proceedings, American Water Works Association, 1911, pp. 173–216.
Deals chiefly with the method of charging in New Orleans. Good discussion on the subject by members of the association.

ERICSON, JOHN. Waterworks plants and the proper rates for domestic and public service. *Ibid.*, 1907, pp. 295–302.
Outlines method for fixing rates.

FULLER, G. W. Elements to be considered in fixing water rates. Annals of the American Academy of Political and Social Science, liii, whole no. 142, pp. 251–261 (May, 1914).

GWINN, D. R. Water rates charged in 375 cities. Proceedings, American Water Works Association, 1908, pp. 209–238.
Statistics and discussion of rates.

HAZEN, ALLEN. Clean water and how to get it. 2d edition. New York, 1914. 196 pp.
Ch. xiii (pp. 133–148), The use, waste, and measurement of water. Considers the methods of charging for water when a meter is used; points out a fair basis.

HEIM, J. B. Meter rates. Proceedings, American Water Works Association, 1904, pp. 251–267.

Discusses uniform and sliding-scale rates, and minimum rate, especially as applied to Madison, Wis. Has some good statistics showing rates and factors causing the rate in 88 cities.

METCALF, LEONARD, KUICHLING, EMIL, and HAWLEY, W. C. Some fundamental considerations in the determination of a reasonable return for public fire hydrant service. Proceedings, American Water Works Association, 1911, pp. 55–149.
A good discussion with tables and diagrams.

New England Waterworks Association. Rates for metered water. Journal, xviii, pp. 222–242 (June, 1904).
A good general discussion. Brings up a number of interesting points.

New York City. Bureau of Municipal Research. Collecting water revenues; methods of the bureau of water register, Manhattan, with suggestions for reorganization. New York, 1908. 223 pp.

(c) *The electrolysis of water mains*

American Gas Light Association. Report of committee on electrolysis. 1906. 173 pp.
Printed also in Transactions, American Gas Institute, i, pp. 761–939 (1906). This report deals very thoroughly with the subject. Sec. I, Theory of electrolytic corrosion; sec. II, Electrolysis in America — Peoria, Taunton, Dayton, Richmond, New Bedford, Bayonne, Boston, Chicago, Detroit, and New York City; sec. III, Electrolysis in Great Britain; sec. IV, Electrolysis in Germany; sec. V, Summary and conclusions. Discussion by engineers.

American Institute of Electrical Engineers. Electrolysis. Transactions, xxvi, Pt. I, pp. 264–302 (March 1, 1907).
A valuable discussion by a number of engineers.

Chicago. Bureau of Public Efficiency. Electrolysis of water pipes in the city of Chicago. Chicago, 1911. 71 pp. (Bulletin no. 4.)

MICHALKE, CARL. Stray currents from electric railways. Translated by O. A. Kenyon. New York, 1906. 101 pp.
A good short book covering the important parts of the subject; gives various formulas for determining the distribution and strength of stray currents, etc. Contains a good bibliography on the subject, pp. 91–98.

New England Waterworks Association. Electrolysis. Journal, xx, pp. 34–50 (March, 1906).

A discussion dealing chiefly with the results of electrolysis in cities of Massachusetts, and the remedies applied.

WYER, S. S. Regulation, valuation and depreciation of public utilities. Columbus, Ohio, 1913. 313 pp.

Ch. ix (pp. 129–155), Electrolysis as a form of depreciation. Describes causes of electrolysis and outlines preventive and remedial measures. A brief but good discussion.

(d) *Growths in water mains*

BROWN, J. C. Deposits in pipes and other channels conveying potable water. Proceedings, Institution of Civil Engineers, xlvi, pp. 1–18 (1903).

A description of various growths in pipes, with means of prevention outlined.

HILL, N. S., Jr. Tuberculation and the flow of water in pipes. Proceedings, American Water Works Association, 1907, pp. 302–387.

A good article discussing tuberculation or rust; deposits or incrustations due to alkalinity; ferruginous slime; sedimentary deposits; pipe coatings; scraping mains; and the effect of surface roughness. Standardized formulas are given, and the author emphasizes the need of greater attention being paid to the distribution system.

HODGMAN, B. B. The restoration of old distributing systems. *Ibid.*, 1911, pp. 39–53.

Discusses chiefly the cleaning of water mains and the results obtained.

SMITH, E. G. Some recent experiences with growths in water mains. *Ibid.*, 1903, pp. 524–541.

Discusses the nature of crenothrix and shows that it may be best destroyed by withdrawal of its food supply.

SMITH, O. T. Experience with growths in water mains. *Ibid.*, 1904, pp. 148–160.

Describes the growths and methods of treatment in Freeport, Ill.

16. WATERWORKS STATISTICS, ACCOUNTING, AND FINANCE

(a) *Waterworks statistics*

American Water Works Association. Report of committee on tabulation of water rates and other information of interest to water companies. Journal, i, pp. 231–337 (June, 1914).

JORDAN, F. C. Some water works statistics, etc. Journal, New England Waterworks Association, xxiv, pp. 592–622 (December, 1910).

Gives table of water rates of various cities in the United States, revised to November, 1910; table showing percentage of pipe of various sizes in cities of the United States (1908); and data regarding fire-hydrant service in various cities (1908).

New England Waterworks Association. R. K. HALE, compiler. Water works statistics for the year 1909. Journal, xxiv, pp. 419–441 (December, 1910).

Table 1, General and pumping statistics; table 2, Financial statistics; table 3, Statistics of consumption of water; tables 4 and 5, Statistics relating to distribution systems, main pipes, and service pipes. These are for 45 towns in New England.

United States. Bureau of the Census. Statistics of cities having a population of over 25,000: 1902–1903. Washington. Published annually since 1905.

See index under Water Supply. Beginning with volume for 1905 statistics (1907), the figures are for cities having a population of over 30,000.

Water works statistics of American Cities. Municipal Journal, xxxiv, pp. 817–825 (June 12, 1913); xxxv, pp. 13–15, 860–862 (July 3 and December 25, 1913).

Tables 1 and 2, General and financial data for municipal and privately-owned plants. Population — total and supplied; consumption — total, through meters, maximum daily; cost of maintenance — street work, pumping stations, purification plant, superintendent's office, and all other; cost of plant to date; outstanding bonds.

Tables 3 and 4, Distribution system data. Street mains — laid during year, kinds, discontinued during year, now in service; hydrants now in service; appliances for filling watering carts; stop gates; service connections — added during year, now in operation; motors and elevators supplied; private fire connections.

Water works statistics of American cities. *Ibid.*, xxxvi, pp. 103–106 (January 22, 1914).

The daily consumption, cost of plant per million gallons of yearly consumption, and cost of maintenance per million gallons for municipal and private plants in about 300 cities, are tabulated. These tables are very good.

Water works statistics of American cities. Tables 1–6, 8, *Ibid.*, xxxvi, pp. 650–673 (May 7, 1914); Table 7, xxxvii, pp. 104–108 (July 23, 1914).

Tables 1 and 2, Consumption and general — municipal and privately-owned plants. Cost of plant; population — total, supplied with water;

consumption — total, maximum daily, method of obtaining figures, passed through meters, furnished free, method of obtaining free figures.
Tables 3 and 4, Distribution systems. Street mains; hydrants in service; stop gates in service; sprinkling-cart appliances; service connections; motor and elevator connections; private fire connections.
Tables 5 and 6, Meters and rates. Kind on fire connections; service meters; consumers owning meters, maintaining meters; cost per year of maintenance, etc.; reduction in consumption; meter rates; rates for private fire service.
Table 7, Municipal water purification plants.
Table 8, Treatment of water — private plants. Sand filters — slow, rapid; sedimentation; softening plant; treatment for algae; hypochlorite; other treatment.

Water works statistics for the year 1914. *Ibid.*, xxxviii, pp. 544–557 (April 22, 1915).
Table 1, Pipe laid during 1914; Table 2, Water works appurtenances; Table 3, Meters set in 1914; Table 4, Waste prevention.

For foreign statistics, see above, pp. 171–172.

(b) *Waterworks accounting*

ALLISON, L. M. A complete accounting system for both large and small water works properties. Engineering and Contracting, xli, pp. 77–80 (January 14, 1914).
Briefly outlines a system and gives classifications.

American Water Works Association. A discussion of depreciation and a comparison of rates and bookkeeping methods of municipally and privately owned water works. Proceedings, 1912, pp. 325–347.

METCALF, LEONARD. Depreciation in waterworks operation and accounting. Journal, New England Waterworks Association, xxiv, pp. 442–472 (September, 1910).
Considers items and amounts to be charged to depreciation, and gives tables and diagrams.

MULHALL, J. F. J. Water works accounting. *Ibid.*, xix, pp. 395–411 (December, 1905).
This paper is intended as a rough draft for waterworks accounts; it outlines records to be kept.

—— Quasi-public corporation accounting and management. Boston, 1905. 198 pp.
Pt. III, pp. 28–65, Water works. States briefly the books, forms, and methods necessary for proper organization and management.

United States. Bureau of the Census. Statistics of cities having a population of over 30,000: 1907. Washington, 1910. 548 pp.

Uniform system of accounting for water-supply enterprises, pp. 511–541.

—— —— Uniform accounts for systems of water supply. Washington, 1911. 44 pp.

Arranged by representatives of the United States Bureau of the Census, the American Water Works Association, the American Association of Public Accountants, the Ohio Bureau of Uniform Public Accounting, and other organizations.

(c) *Waterworks finance*

Boston Finance Commission. An investigation of the Boston Water Department. Reports, iii, pp. 5–316 (1909).

KUICHLING, E. The financial management of waterworks. Transactions, American Society of Civil Engineers, xxxviii, pp. 1–40 (December, 1897).

Considers proper distribution of charges, and means of obtaining revenue.

MARWICK, MITCHELL AND COMPANY. Water finance. In National Civic Federation Report on municipal and private ownership of public utilities, Pt. II, vol. i, pp. 353–425. 3 vols. New York, 1907.

United States. Bureau of the Census. Statistics of cities having a population of over 25,000: 1902–1903. Washington. Published annually since 1905.

See index under Water Supply. Beginning with the volume for 1905 statistics (1907), the figures are for cities having a population of over 30,000.

17. MUNICIPAL AND PRIVATE OWNERSHIP OF WATER-SUPPLY SYSTEMS

BEMIS, E. W., editor. Municipal monopolies. 4th edition. New York, 1904. 691 pp.

A good book in its day, but now somewhat out of date.

National Civic Federation. Report on municipal and private operation of public utilities. 3 vols. New York, 1907.

Especially Pt. II, vol. i, pp. 1–425. A careful investigation of the cities of Chicago, Cleveland, and Syracuse, which have municipal water systems, and of New Haven, Utica, and Indianapolis, which have privately-owned systems.

United States. Bureau of the Census. Statistics of cities having a population of over 25,000: 1902–1903. Washington. Published annually since 1905.

See index under Water Supply. Beginning with the volume for 1905 statistics (1907), the figures are for cities having a population of over 30,000.

WILCOX, D. F. Municipal franchises. 2 vols. New York, 1910–1911.

See below, pp. 209–210.

American Academy of Political and Social Science. Symposium on the relation of the municipality to water supply. Annals, xxx, pp. 557–592 (November, 1907).

A brief history and description of the water systems of Chicago, Philadelphia, Baltimore, Cleveland, Buffalo, San Francisco, Cincinnati, New Orleans, Detroit, Washington, Providence, and Duluth.

18. PERIODICAL PUBLICATIONS RELATING TO WATER SUPPLY

American Water Works Association. Proceedings. No. 1, 1881. Baltimore.

The best periodical publication on the subject of water supply; deals with all phases. Beginning with 1914 (the 34th year) the Proceedings are replaced by a Journal, issued quarterly.

Fire and Water Engineering. Vol. i, 1893. New York. Published weekly.

Contains short articles chiefly in regard to current practices.

New England Waterworks Association. Journal. Vol. i, 1886. Published quarterly.

Many articles and compilations of great value appear regularly in the Engineering News, Engineering Record, Municipal Journal, and other scientific periodicals (see above p. 23).

SECTION XXXIV. MUNICIPAL LIGHTING

1. LISTS OF REFERENCES

BROOKS, R. C. A bibliography of municipal problems and city conditions. 2d edition. New York, 1901. 346 pp.

Lighting, pp. 116–124, 164–167.

Johns Hopkins University. Lectures on illuminating engineering. 2 vols. Baltimore, 1911.

Lists of references: i, pp. 85–91, 208–209, 276, 410; ii, pp. 793, 927–929.

New York City. Public Library. List of works in the New York Public Library relating to illumination. New York, 1909. 49 pp. (Bulletin, xii, pp. 686–734 (December, 1908).)

2. General Discussions and Reports

Bell, Louis. Street lighting. Engineering Magazine, xxviii, pp. 913–914 (March, 1910); Transactions, Illuminating Engineering Society, iii, pp. 400–409 (1908).

Eshleman, C. L. Modern street lighting. American City, vi, pp. 510–517 (February, 1912).

Deals with ornamental street lighting, describing various fixtures, etc.

Humphrey, H. H. Street lighting of cities. Journal, Association of Engineering Societies, xxvi, pp. 18–34 (1901).

Deals chiefly with equipment.

Marston, G. American public lighting. World To-Day, xx, pp. 293–300 (March, 1911).

Paine, F. D. Ornamental post lighting of city streets. Iowa City, 1915. 16 pp. (Iowa State College of Agriculture and Mechanic Arts. Bulletin no. 13.)

Reunie, K. G. Street lighting. Municipal Engineering, xliv, pp. 259–262 (March, 1913).

Principles of street lighting. Cassier's Magazine, xlii, pp. 169–176 (August, 1912).

3. Technical Discussions

Barrows, W. E. Light, photometry, and illumination. New York, 1912. 335 pp.

A thoroughly revised edition of Electrical illuminating engineering. Deals chiefly with the characteristics of light and with illumination calculations. Ch. xii (pp. 291–312), The principles of street illumination. Contains curves showing distribution of light, etc.

Bell, Louis. The art of illumination. 2d edition. New York, 1912. 353 pp.

A treatise on the history, science and art of lighting, public and private.

Bloch, Leopold. The science of illumination; an outline of the principles of artificial lighting. Translated by W. C. Clinton. London, 1912. 180 pp.

A technical work considering chiefly the calculation and measurement of illumination.

BOHLE, HERMANN. Electrical photometry and illumination. London, 1912. 222 pp.

A book designed chiefly for engineers. Bibliography, pp. 212–218.

BRYANT, J. M., and HAKE, H. G. Street lighting. Urbana, 1911. 64 pp. (Bulletin of the University of Illinois, no. 51 (1911).)

Treats largely of technical questions, with a great many formulas, tables, and diagrams.

DIBDIN, W. J. Public lighting by gas and electricity. New York, 1904. 537 pp.

Concerned chiefly with general problems and photometry.

HOUSTON, R. A. Studies in light production. London, 1912. 175 pp.

Considers the efficiency of various kinds of illuminants.

Johns Hopkins University. Lectures on illuminating engineering. 2 vols. Baltimore, 1911.

Ch. i, The physical basis of the production of light, by J. S. Ames; ch. ii, The physical characteristics of luminous sources, by E. P. Hyde; ch. iii, The chemistry of luminous sources, by W. R. Whitney; ch. iv, Electric illuminants, by C. P. Steinmetz; ch. v, (1) Gas and oil illuminants, by A. C. Humphreys, (2) Incandescent gas mantles, by M. C. Whitaker; ch. vi, The generation and distribution of electricity with special reference to lighting, by J. B. Whitehead; vii, The manufacture and distribution of artificial gas with special reference to lighting, (1) by E. G. Cowdery, (2) by W. R. Addicks; ch. viii, Photometric units and standards, by E. B. Rosa; ch. ix, The measurement of light, by C. H. Sharp; ch. x, The architectural aspects of illuminating engineering, by Walter Cook; ch. xi, The physiological aspects of illuminating engineering, by P. W. Cobb; ch. xii, The psychological aspects of illuminating engineering, by R. M. Yerkes; ch. xiii, The principles and design of interior illumination, by W. E. Barrows, Jr., L. B. Marks, and Norman Macbeth; ch. xiv, The principles and design of exterior illumination, by Louis Bell and E. N. Wrightington; ch. xv, Shades, reflectors and diffusing media, by Van Rensselaer Lansingh; ch. xvi, Lighting fixtures, by E. F. Caldwell; ch. xvii, The commercial aspects of electric lighting, by J. W. Lieb, Jr.; ch. xviii, The commercial aspect of gas business with special reference to gas lighting, by Walton Clark.

PEARCE, S. L., and RATCLIFFE, H. A. Recent developments in the street lighting of Manchester. Electrician, lxx, pp. 1007–1010, 1047–1051 (March 7 and 16, 1913).

Gives the results of tests to discover the relative desirability of electricity and gas for street lighting.

STEINMETZ, C. P. Radiation, light, and illumination. New York, 1909. 305 pp.
A good discussion which is not too technical.

TROTTER, A. P. Illumination; its distribution and measurement. London, 1911. 292 pp.
Deals with the principles and methods of distribution and measurement of illumination.

WICKENDEN, W. E. Illumination and photometry. New York, 1910. 195 pp.
A text-book for use in engineering colleges.

4. PUBLIC LIGHTING BY GAS

(a) *The manufacture of illuminating gas*

COWDERY, E. G., and ADDICKS, W. R. The manufacture and distribution of artificial gas with special reference to lighting. In Johns Hopkins Lectures (see above), i, ch. vii (pp. 277–386).
A comprehensive discussion.

ELLIOTT, A. H. Making illuminating gas. In Municipal chemistry, edited by Charles Baskerville, ch. xix (pp. 300–310). New York, 1911. 526 pp.
A brief description of the principal processes.

(b) *Gas-lighting engineering and construction*

GERHARD, W. P. Gas lighting and gas fitting. 2d edition. New York, 1894. 190 pp.
A volume in the Van Nostrand science series.

LATTA, M. N. Handbook of American gas-engineering practice. New York, 1907. 466 pp.

WRIGHTINGTON, E. N. The principles and design of exterior illumination by gas. In Johns Hopkins Lectures (see above), ii, ch. xiv (pp. 839–884).
Considers the history of street lighting, requirements of good illumination, general divisions of street lighting, types of high and low pressure gas lamps, automatic lighting and extinguishing of gas street lamps, etc.

(c) *Gas-lighting operation, maintenance and cost*

CLARK, WALTON. The commercial aspects of gas lighting. In Johns Hopkins Lectures (see above), ii, ch. xviii (pp. 1009–1039).
Presents the advantages of gas service to a community; takes up good versus poor service, gas company organization, etc.

DICKERMAN, J. C. Some notes on the regulation of gas service. Annals of the American Academy of Political and Social Science, liii, whole no. 142, pp. 278–284 (May, 1914).

FERNALD, R. H. Service regulations for gas. *Ibid.*, pp. 269–277.

National Civic Federation. Report on municipal and private operation of public utilities. 3 vols. New York, 1907.
United States gas works, Pt. II, vol. i, pp. 426–664; British gas works, Pt. II, vol. ii, pp. 113–247.

United States. Bureau of Standards. State and municipal regulations for the quality, distribution and testing of illuminating gas. Washington, 1912. 133 pp. (Circular no. 32 (April 1, 1912).)

(*d*) *Gas-lighting accounts and finance*

MARKS, W. D. The finances of gas and electric light and power enterprises. 4th edition. New York, 1907. 540 pp.
Presents the results of actual experience in management. See especially ch. v (pp. 165–210), Methods of establishing prices for gas; ch. vi (pp. 211–223), Prices of gas in Massachusetts; ch. xii and xiii (pp. 375–485), Price of gas in New York City in 1906.

MULHALL, J. F. J. Quasi-public corporation accounting and management. Boston, 1905. 198 pp.
Gas works, pp. 66–115. Gives books and forms which should be used; also gives form of report required by the gas and electric light commissioners in Massachusetts.

National Civic Federation. Report on municipal and private operation of public utilities. 3 vols. New York, 1907.
Pt. II, vol. i, pp. 568–587, Gas works: finance and accounting, by Marwick, Mitchell and Company; Pt. II, vol. ii, pp. 208–247, Gas works: finance and accounting, by E. H. Turner and R. C. James.

New York State. Public Service Commission. First District. Uniform system of accounts for gas corporations. New York, 1908. 64 pp.
Gives classification and schedule of accounts.

United States. Bureau of the Census. Statistics of cities having a population of over 25,000: 1902–1903. Washington. Published annually since 1905.
See index under Lighting. Beginning with volume for 1905 statistics (1907), the figures are for cities having a population of over 30,000.

(e) *Gas-lighting franchises and municipal ownership*

BEMIS, E. W., editor. Municipal monopolies. 4th edition. New York, 1904. 691 pp.

Ch. viii (pp. 587–628), Gas. Deals chiefly with prices. The experience of several cities in regard to rates is given.

BRADFORD, E. S. Municipal gas lighting. Madison. 18 pp. (Wisconsin Library Commission. Comparative Legislation Bulletin no. 8 (September, 1906).)

Gives statistics of municipal gas plants in about 30 cities.

HOWE, F. C. The British city, the beginnings of democracy. New York, 1907. 370 pp.

Ch. viii (pp. 101–110), Gas supply in British cities. A brief history.

National Civic Federation. Report on municipal and private operation of public utilities. 3 vols. New York, 1907.

Pt. I, vol. i, Gas works, pp. 146–161; Pt. II, vol. i, Gas works, pp. 426–587. Presents the results of an investigation of municipal and privately-owned plants.

ROWE, L. S. Problems of city government. New York, 1908. 358 pp.

Ch. x (pp. 208–240), The relation of the city to public utilities; ch. xi (pp. 241–270), The municipality and the gas supply. Considers chiefly the experience of Philadelphia.

WILCOX, D. F. Municipal franchises. 2 vols. New York, 1910–1911.

Vol. i, ch. xix, Artificial and natural gas as public utilities; ch. xx, Gas franchises where only artificial gas is available; ch. xxi, Gas franchises in cities within reach of natural gas fields. Considers the experience of artificial and natural gas companies in various cities, and outlines the provisions that should be in a franchise.

See also Franchises, Municipal Ownership.

5. PUBLIC LIGHTING BY ELECTRICITY

(a) *General discussions*

American School of Correspondence. Electric lighting. By G. E. Shaad. Chicago, 1913. 94 pp.

BARROWS, W. E. Light, photometry and illumination: a thoroughly revised edition of Electrical illuminating engineering. New York, 1912. 335 pp.

See above, p. 185.

BELL, LOUIS. The principles and design of exterior illumination (by electricity). In Johns Hopkins Lectures (see above), ii, ch. xiv (pp. 795–837).

A brief article outlining the principal considerations in public lighting, with a few formulas and curves.

CROCKER, F. B. Electric lighting: a practical exposition of the art. 6th edition. 2 vols. New York, 1904.

Covers all phases of the subject.

FRANKLIN, W. S. Electric lighting and miscellaneous applications of electricity. New York, 1912. 299 pp.

A text-book for technical schools and colleges. See especially ch. vii (pp. 171–183), Street lighting.

HUTCHINSON, R. W. High efficiency electrical illuminants and illumination. New York, 1911. 278 pp.

See especially ch. vii (pp. 248–272), Notes on street illumination.

STEINMETZ, C. P. Electric illuminants. In Johns Hopkins Lectures (see above), i, ch. iv (pp. 109–156).

A technical discussion with formulas and curves. Considers solid, gaseous, and arc conductors.

TROTTER, A. P. Standard clauses for inclusion in a specification of street lighting. Electrician, lxxi, pp. 46–50 (April 18, 1913).

A good brief discussion.

WHITEHEAD, J. B. The generation and distribution of electricity with special reference to lighting. In Johns Hopkins Lectures (see above), i, ch. vi (pp. 237–276).

Deals with the principles and design, and the installation of electric-lighting systems, for interior and exterior illumination.

(*b*) *Electric-lighting statistics*

United States. Bureau of the Census. Statistics of cities having a population of over 25,000: 1902–1903. Washington. Published annually since 1905.

See index under Lighting. Beginning with volume for 1905 statistics (1907), the figures are for cities having a population of over 30,000.

—— —— Central electric light and power stations (1912). Washington, 1915. 440 pp.

—— Bureau of Standards. Standard specifications for incandescent electric lamps. 6th edition. Washington, 1914. 20 pp. (Circular no. 13.)

Data concerning street illumination. Municipal Journal, xxxiii, pp. 685–696 (November 7, 1912).

Tables 1 and 2, Private and municipal plants: miles of streets lighted; lamps; are wires in conduits and conduits under road or sidewalk; current by water or steam; cost of coal; prices for commercial light and power.
Tables 3 and 4, "White way" lighting, private and municipal plants: lamps; distance between standards; cost; are wires in conduits and conduits under road or sidewalk; payment made by whom.

Data concerning electric light plants. *Ibid.*, xxxv, pp. 172–186 (August 7, 1913).

Municipal and private plants. Tables 1 and 1*a*, Equipment: miles of streets lighted; boilers, engines and dynamos; street lines — length of wire, of streets with overhead wires, with underground conduits.
Tables 2 and 2*a*, Operation: fuel and other sources of power; current generated and sold; receipts; connected load.
Tables 3 and 3*a*, Lamps used: street lighting and commercial lighting — kind, capacity, number used, average useful life, rate of payment.
Tables 4 and 4*a*, Commercial lighting rates: maximum and minimum rate per kilowatt hour and kilowatt hour to which this rate applies.

Information concerning street lighting. *Ibid.*, xxxvii, pp. 264–272 (August 27, 1914).

Tables 1 and 2, Municipal and private plants: miles of streets lighted; lamps used; average distance between lights; height of lamp above street; method of supporting lamps; length of wire conduits.

Electric lighting data. *Ibid.*, xxxviii, pp. 884–894 (June 24, 1915).

Table 1, Equipment: boilers, engines and dynamos — number, capacity and make; street lines — total length of wire, length of streets with overhead wire, with underground conduit.
Table 2, Current generated and sold, connected load and fuel statistics.
Table 3, Street lighting: private or municipal plant; arc and incandescent lamps; miles of street lighted; cost per lamp; hours lamps burn.
Table 4, "White way" lighting: number of standards and lamps; kind; capacity; cost and by whom paid.

(*c*) *Electric-lighting operation, maintenance, and costs*

ERICKSON, HALFORD. Electric lighting and power rates. Annals of the American Academy of Political and Social Science, liii, whole no. 142, pp. 238–250 (May, 1914).

FLOY, HENRY, editor. A compilation of the records of the Colorado Springs lighting controversy. New York, 1908. 327 pp.

Includes minutes of evidence which contain much data relating to the efficiency and costs of various types of street lights.

GIBBINGS, A. H. The commercial and business aspects of municipal electricity supply. Bradford (England), 1899. 270 pp.

Aims to present the subject in a form that will be easily understood by the average business man. Applies particularly to English cities.

HARRIS, L. H. Service regulations for electrical utilities. Annals of the American Academy of Political and Social Science, liii, whole no. 142, pp. 285–291 (May, 1914).

LIEB, J. W. The commercial aspects of electric lighting. In Johns Hopkins Lectures (see above), ii, ch. xvii (pp. 945–1008).

Considers (1) the public utility corporation; (2) state or municipal supervision; (3 and 4) relations with the public and with employees; (5) service conditions; (6) accounting; (7) rate schedules; (8) metering; (9) advertising and canvassing.

SEABROOK, A. H. The management of public electric supply undertakings. New York, 1913. 192 pp.

Considers electric supply as a business; outlines form of organization for the various departments and for the general management of the undertaking.

(*d*) *Electric-lighting finance and accounting*

ALLEGAERT, E. J. Branch office accounting. Transactions, National Electric Light Association, 1909, iii, pp. 18–29.

BAILEY, J. L. Care and handling of supplies. *Ibid.*, 1909, iii, pp. 118–140.

CLAFLIN, G. E. Depreciation accounting for small companies. *Ibid.*, 1909, iii, pp. 165–182.

EDWARDS, H. M. Electric light accounts and their significance. New York, 1914. 172 pp.

FREEMAN, W. W. Pay-roll problems of the electric light industry. Transactions, National Electric Light Association, 1909, iii, pp. 74–118.

MARKS, W. D. The finances of gas and electric light and power enterprises. 4th edition. New York, 1907. 540 pp.

Presents the results of actual experience in management.

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CHAPTER VI

SANITATION AND PUBLIC HEALTH

SECTION XXXIX. WASTE DISPOSAL, SEWERAGE AND SANITATION

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CHAPTER VII

PUBLIC SAFETY

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CHAPTER VIII

EDUCATION AND GENERAL BETTERMENT

SECTION LVI. SCHOOL ADMINISTRATION

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SECTION LXIX. AGENCIES OF INSTRUCTION IN MUNICIPAL GOVERNMENT

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Goodwin, E. H. The training of secretaries for civic and commercial organizations. *Ibid.*, ii, pp. 713–714 (October, 1913).

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CHAPTER IX

MUNICIPAL FINANCE

SECTION LXX. GENERAL PROBLEMS OF FINANCE

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SECTION LXXI. ASSESSMENTS

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Marsh, B. C. Taxation of land values in American cities. New York, 1911. 112 pp.

Pleydell, A. C. The use of standards in real estate assessment. New York, 1909. 12 pp. (Publication of the New York Tax Reform Association.)
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